



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 2023-2024



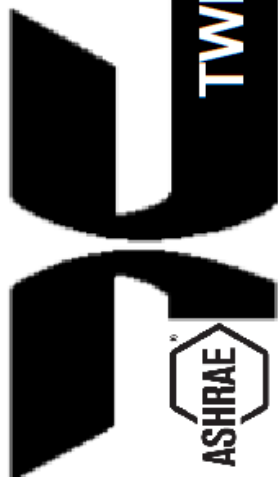
Shaping Tomorrow's Built Environment Today

January Virtual Meeting Jan. 16, 2024

Decarbonization (Electrification) For Hydronic Heating Systems

**Mick Schwedler, PE, FASHRAE, LEED AP BC+C, Distinguished Lecturer
Trane**

TWIN TIERS TALK



To register, visit the Chapter website:
<https://twintiersashrae.org/>

Please send all newsletter comments to:
Andrew Nice, Newsletter 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

ASHRAE Family,

Happy New Year! I hope each one of you enjoyed the holiday season and your years are off to a great start.

Thank you to the Trophy Point team for presenting virtually on "Estimating and Today's Bidding Environment" last month. They discussed ways on how to streamline the cost estimating process to provide an edge when it comes to bidding and taking advantage of value engineering opportunities.

UP NEXT! Our January theme is sustainability. On Tuesday 1/16/23 at 12pm, Mick Schwedler will be presenting virtually on "Decarbonization (electrification) for Hydronic Heating Systems." Mick is a PE, FASHRAE, LEED® AP BD+Ci as well as an ASHRAE Distinguished Lecturer and Society Past President. His presentation is approved for 1 PDH and will explore how hydronic systems using heat recovery chillers, heat pumps and chiller/heaters can be designed, piped, optimized and controller in order to provide heat efficiently. For a full bio, presentation summary and to register visit: <https://twintiersashrae.org/meetinginfo.php?id=33&ts=1704220720>

We have a lot planned for 2024 so please visit our website for upcoming events and how to get involved! <https://twintiersashrae.org/index.php>

Our board of governors are focused on enriching your experience as members, so we are always open to feedback on our current events and how we can better serve you. Feel free to reach out to any of us if you have ideas or would like to get involved.

Thank you all for your support and we look forward to connecting soon!

Sincerely,

Dana Ehrets
Twin Tiers Chapter President

Chapter President



Dana Ehrets
(315)920-0487
[Email Me!](#)

2023-2024
Chapter Officers

President-Elect
Alison Kran
(631)806-5977
[Email Me!](#)



Vice President
Robert J Vanskiver
(585)472-6146
[Email Me!](#)



Treasurer
Ibrahima Balde
(607)723-9421
[Email Me!](#)

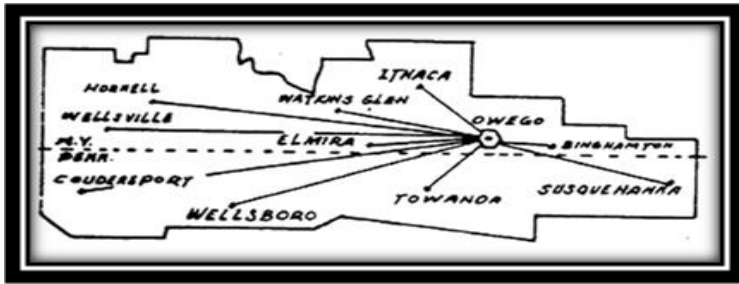


Secretary
Kevin McKeon
(607) 834-0734
[Email Me!](#)



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Twin Tiers Chapter

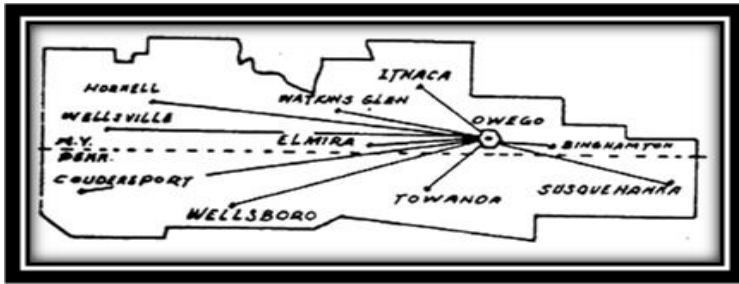
Presidential Award of Excellence (PAOE)

	Chapter Operations	Chapter Technology Transfer	Electronic Communications	Grassroots Government Activities	Historical	Membership Promotion	Research Promotion	Student Activities	Young Eng. In ASHRAE
MIN/ PAR	600/1500	550/1500	300/700	500/1250	100/500	1000/1600	800/1050	500/800	300/900
Current	835	600	795	200	245	200	795	310	1125

POINTS CURRENT AS OF 1/16/2024

Chapter Committee Chairs

Technology Transfer Alison Kran (631)806-5977 Email Me!	Government Activities Adam Keller (315) 484-9526 Email Me!	Refrigeration Kevin McKeon (607) 834-0734 Email Me!	Golf & Clambake Outing Travis Fisher (607) 972-1342 Email Me!
Membership Promotion Ben Nemec (607) 760-0449 Email Me!	Nominating Victoria Kramer (607) 321-6127 Email Me!	Meeting Reception Ibrahima Balde (607)723-9421 Email Me!	H.O. Ward Scholarship Richard Sanguinito (607) 231-6605 Email Me!
Research Promotion Michael McGinnis (607) 727-3168 Email Me!	Student Activities Jason Gilbert (607) 777-2240 Email Me!	Diversity in ASHRAE Mohammed Khalil (347) 982-5490 Email Me!	Albern Education Fund Jason Gilbert (607) 777-2240 Email Me!
Honors & Awards Victoria Kramer (607) 321-6127 Email Me!	Historian Richard Sanguinito (607) 231-6605 Email Me!	Symposium– Fall/Spring Robert J Vanskiver (585)472-6146 Email Me!	Auditing Rick Sanguinito & Andrew Nice (607) 231-6605 / (607) 760-5960 Email Me!
Webmaster Victoria Kramer (607) 321-6127 Email Me!	Newsletter Editor Andrew Nice (607) 760-5960 Email Me!	YEA: Young Engineers Kyle Nedlik (607) 321-6100 Email Me!	Sustainability Makayla Jackson (607) 232-5351 Email Me!



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Twin Tiers Chapter– Monthly Meeting Information

2023-2024 Meeting Dates:

Date:	Speaker	Tech Session Topic, Tour or Meeting Info	Attendance:
19-Sep	Tour Guide: George Slavik III, Slavik & Co. Presenter: Al Daniels, IPD Engineering	Tour: Victory Building Presentation: Victory Building Theme: Student Activities	-
17-Oct	Presenters: Braydon Whittington & Evan Crawley, Price Industries	Virtual Presentation: Sizing Single Duct and Fan Powered Terminals for VAV Applications	-
21-Nov	Presenter: Chuck Nora & Paul Stewart, Desert Aire	Presentation: Indoor Cannabis Grow Room Design Theme: Past President’s Night	-
19-Dec	Presenters: Rich Chudzik, Dan Lizak, & Jon DiRienzo Trophy Point	Presentation: Estimating with Trophy Point Theme: Donor Recognition	-
16-Jan	Presenter: Mick Schwedler, PE	Presentation: Decarbonization (Electrification) For Hydronic Heating Systems Theme: Sustainability/Environmental	-
20-Feb	Presenter:	Presentation: NYS Climate Policy & HVAC Theme:	-
18-Mar	Presenter:	Presentation: Recruiting & Retention of the next Generation - Gen Z Theme: Student Activities	-
16-Apr	Presenters: Multiple	Spring Symposium	-
21-May	Presenter: TBD	Presentation: TBD (Refrigeration Based) Theme: Refrigeration	-
18-Jun	None	Golf Tournament	-

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



2024 Business Cards

Mike McGinnis, P.E.

Senior Sales Engineer

5615 Business Ave.
Cicero, NY 13039

Mcginnism@starktech.com

Mobile: 607.727.3168

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www.camfil.com

Joe O'Hara, NCT
Branch Sales Manager

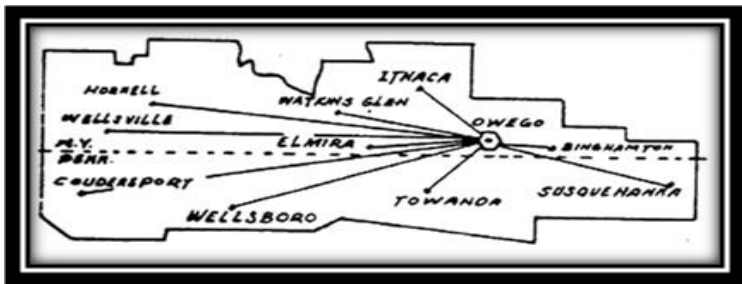
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December Chapter Meeting Announcement

January 16, 2024

ASHRAE Twin Tier January Chapter Meeting

DATE: Tuesday, January 16th, 2024

TIME: 12:00 PM - 1:00 PM

SPEAKERS: Mick Schwedler, PE, FASHRAE, LEED AP BD+C, ASHRAE Distinguished Lecturer, Trane

PRESENTATION Decarbonization (Electrification) For Hydronic Heating Systems (Virtual)

DESCRIPTION: Mick has been active in the development and support of HVAC systems for Trane since 1982. As an applications engineer his areas of expertise include system optimization (in which he holds patents), chilled water and geothermal heat pump system design, and electrification of heating in hydronic systems. His primary activities “Feed the Roots” by assisting engineers in appropriate application of products and systems in buildings, and system education through publications, blogs and presentations. He has provided technical systems education to tens of thousands of engineers through Trane’s Engineers Newsletter Live series, and ASHRAE webcasts. Mick has also given in-person and virtual technical seminars throughout the world, and published many articles within the industry. Prior to his work with Trane, Mick received his MSME from the University of Wisconsin Solar Energy Laboratory and BSME from Northwestern University.

Mick served as 2021-2022 ASHRAE President. He is an ASHRAE Fellow, recipient of ASHRAE’s Exceptional Service, Distinguished Service, and Standards Achievement Awards, and was Chair of SSPC 90.1-2010. Mick also Chaired the Advanced Energy Design Guide Steering Committee and was on project committees for the 50% Hospital and Office Buildings AEDGs.

Mick chaired the USGBC LEED Technical Committee, served on the LEED Steering Committee and is a past member of several USGBC technical and education groups. In addition, he authored portions of the original ASHRAE Green Building Guide, and served on technical groups for the New Buildings Institute.

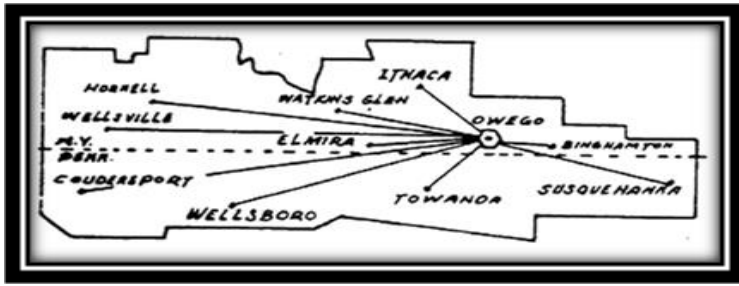
Many people have been educated on what decarbonization is, as well as its goals. This presentation delves into how hydronic systems using heat recovery chillers, heat pumps and chiller/heaters can be designed, piped, optimized and controlled in order to provide heat efficiently. Also covered are the impact of hot water and outdoor air temperatures, methods to simplify system design and operation, the importance of ensuring building operators and facility managers can operate the systems as intended. The goal is to reduce environmental emissions and make the system as simple as possible, but not simpler.

AGENDA: 12:00 - 12:10: Introductions, Chapter Announcements, Upcoming Meetings
12:10 - 1:00: Presentation followed by Q&A

REGISTRATION LINK [REGISTER HERE!](#)

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

E: [Email Me!](#)
C: (631)806-5977



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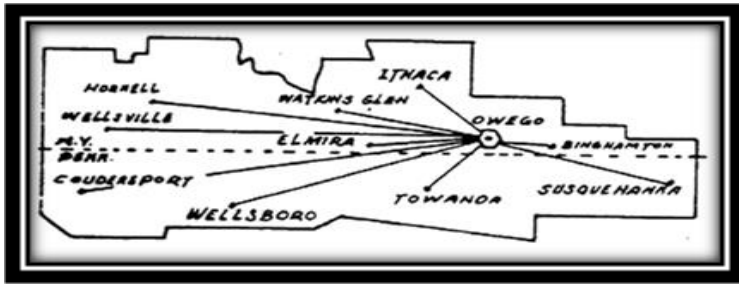
What Were They Thinking???



**Thieves got all the copper on these units.
Then decided to camp out and do laundry?**

**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. *****



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

TRAINING



New York State Professional Engineers Self Study Ethics PDH Available!

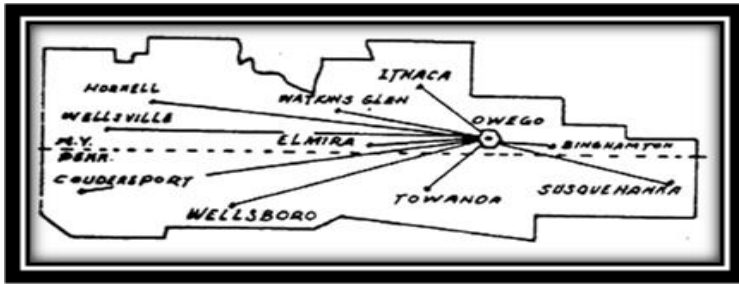
As a licensed professional in New York State, it is your professional responsibility to know the legal and ethical requirements governing the practice of your profession and to be alert to changes in those requirements. The New York State Board for Engineering and Land Surveying, in an effort to help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



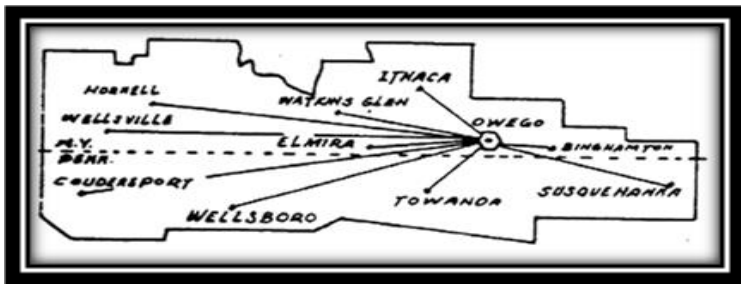
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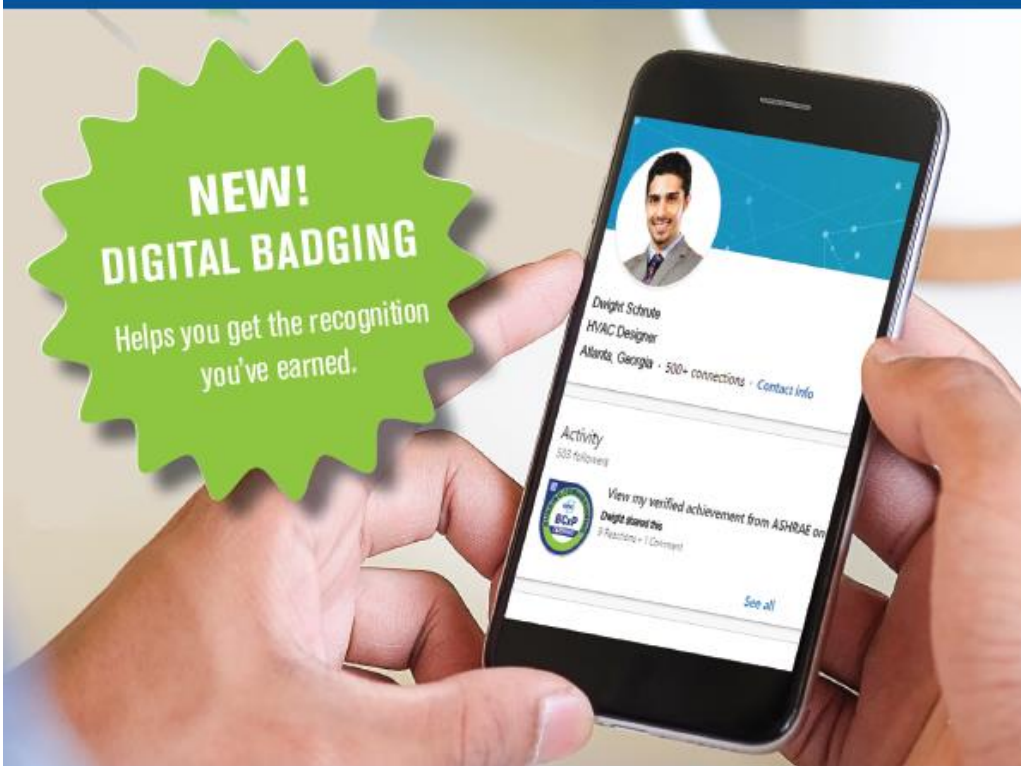


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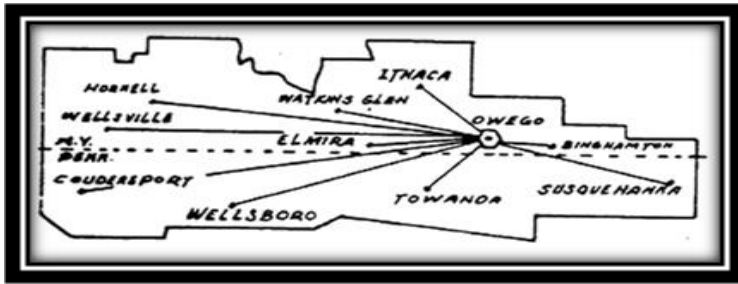
ASHRAE Certification

Advance Your Career Today!



With already more than 3,000 certifications earned to-date, ASHRAE programs were founded to meet the industry needs of today and provide value to thousands of built-environment professionals, employers and building owners.

ashrae.org/certification



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Certified HVAC Designer (CHD)



- The CHD certification validates competency of an HVAC Designer, working under the responsible charge of an engineer, to design HVAC systems to meet building/ project requirements, including load calculations, equipment selection and sizing, mechanical equipment room design, duct and piping design and layout for the development of HVAC plans for permit and construction.
- In an Industry Need survey, ASHRAE member respondents who influence the hiring decision agree the CHD is a tool to identify competent new hire prospects.

High-Performance Building Design Professional (HBDP)



- The HBDP certification validates competency to design and integrate sustainable HVAC&R systems into high performing buildings.
- Today's building design market requires use of ground-breaking technologies in new and existing structures to meet the need of building owners.

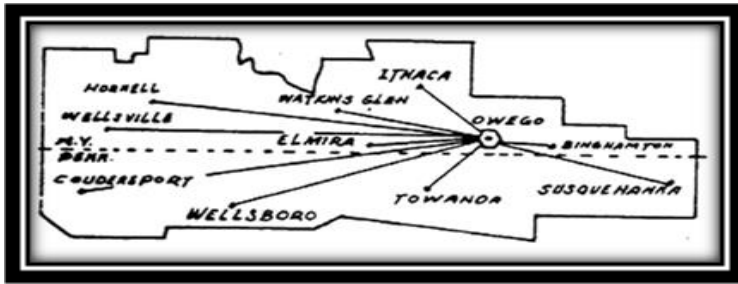
Building Energy Modeling Professional (BEMP)



- The BEMP certification validates competency to evaluate, select, implement, calibrate and interpret the results of energy modeling software when applied to new and existing building and systems energy performance.
- The BEMP certification complements ASHRAE's Building Energy Quotient (BuildingEQ) program by helping to ensure that only qualified practitioners can submit As Designed Workbooks to receive building ratings from ASHRAE.

"Because of the high level of expertise, professionalism and ethics demonstrated by ASHRAE, achieving certification under their established requirements implies one of the highest levels of competence and knowledge available in the industry."

Jeffrey G Ross-Bain, BCxP, BEMP, Ross-Bain Green Building, LLC



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Building Commissioning Professional (BCxP)



- The BCxP certification validates competency to lead, plan, coordinate and manage a commissioning team to implement commissioning processes in new and existing buildings.
- Recognized by the U.S. Department of Energy (DOE) as meeting the Better Buildings Workforce Guidelines (BBWG).

Healthcare Facility Design Professional (HFDP)



- The HFDP certification validates competency to incorporate standards, guidelines as well as unique healthcare facility requirements and design principles in HVAC system design.
- Advances in technology, shifting environmental requirements and an increasingly older population have created a critical need for expansion and renovation of healthcare facilities.

Building Energy Assessment Professional (BEAP)

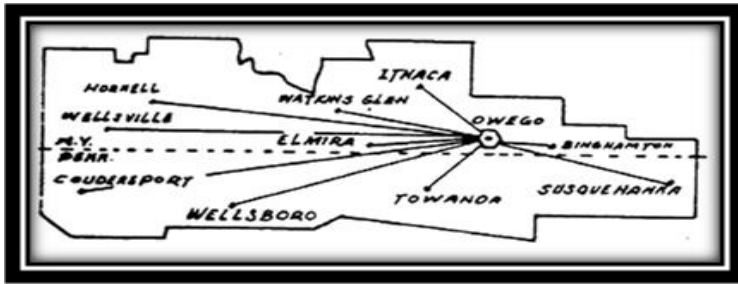


- The BEAP certification validates competency to assess commercial building systems and site conditions, analyze and evaluate equipment and energy usage, and recommend strategies to optimize building resource utilization.
- The BEAP certification is integral to ASHRAE's Building Energy Quotient (BuildingEQ) program by helping to ensure that only qualified practitioners can submit In Operation Workbooks to receive building ratings from ASHRAE.
- Recognized by the U.S. Department of Energy (DOE) as meeting the Better Buildings Workforce Guidelines (BBWG).

Operations & Performance Management Professional (OPMP)



- The OPMP certification validates competency to manage facility operations and maintenance to achieve building performance goals, including those related to indoor environmental quality, health and safety.
- Staying current with the latest facility operation strategies and technologies can reduce energy use in buildings by 10% to 40%.



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The Benefits of an ASHRAE Certification

Value for Certification Earners

- ✓ Validation of specialized knowledge, skills and ability
- ✓ Unparalleled recognition
- ✓ Career development

Value for Employers

- ✓ Identify and recruit qualified professionals
- ✓ Elevated credibility among customers
- ✓ Greater employee job satisfaction

Easy Steps to ASHRAE Certification

1. Read the *Candidate Guidebook*

Visit ashrae.org/certification and download the guidebook for the program in which you are interested.

2. Complete the Application

The ASHRAE Member discounted application fee is \$395 (non-member – \$545).

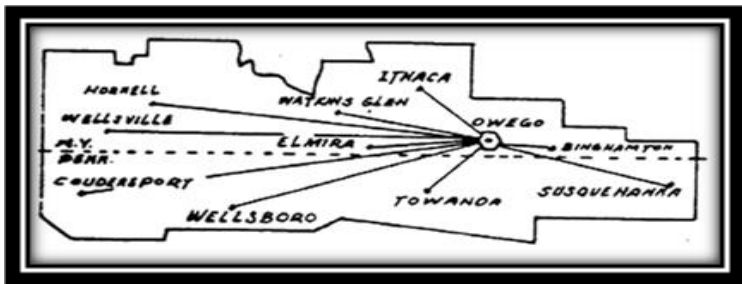
3. Schedule an Examination

Certification examinations are offered at over 300 conveniently located computer-based testing centers worldwide.

4. Renew the Certification

Each certification is renewable every three years.

Certification@ashrae.org | 1-678-539-1105

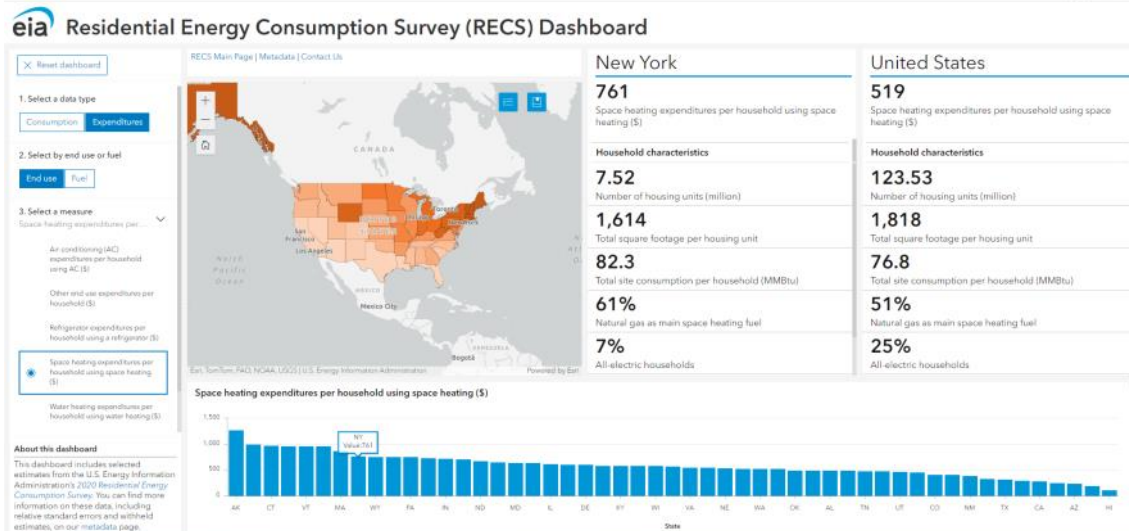
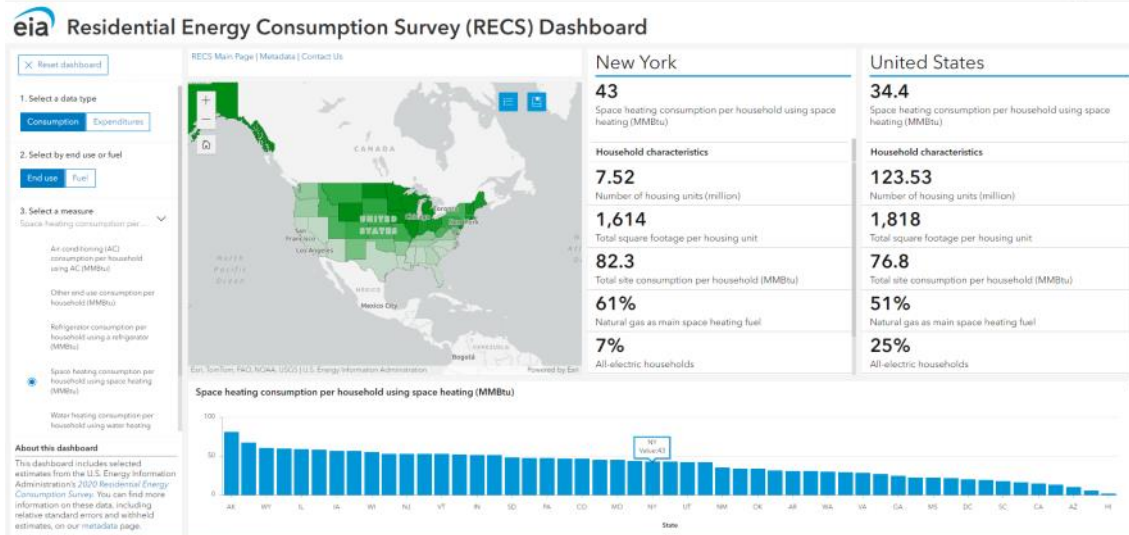


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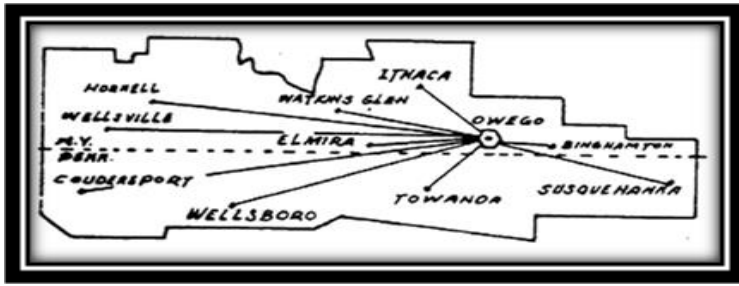
SUSTAINABILITY ARTICLE

The U.S. Energy Information Administration (EIA) just released a [Year in Review highlighting the agency's top accomplishments of 2023](#). One of the accomplishments being the launch of the Residential Energy Consumption Survey (RECS) Dashboard. The interactive webpage provides estimated comparisons of energy consumption and expenditures for end uses and fuel types for each state, as well as the nation.

Pictured below are the estimates for the space heating consumption and expenditure in the state of New York. You can also see how New York ranks in comparison to other states.



The RECS Dashboard shows other end use measures like air-conditioning, refrigerator, and water heating consumption, as well as fuel types such as fuel oil, natural gas, propane, and electricity. [To check it out, follow this link.](#)



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



2024 ENGINEERS WEEK DINNER

Thursday, February 22, 2024

LOCATION: Holiday Inn Arena, 2 Hawley Street, Binghamton, NY (West of Veterans Memorial Arena)

TIME: 5:30–6:30 pm Cash Bar & Poster Presentations, 6:30–7:30 pm Dinner, 7:30 pm Engineer & Young Engineer of the Year Awards, Scholarships and Speaker

ENGINEER AND YOUNG ENGINEER OF THE YEAR AWARD PRESENTATIONS: Formal Recognition and presentation of awards for Engineer & Young Engineer Awards by the Broome Area Chapter of NSPE-NY.

RECOGNITION: SUNY Broome, Tompkins Cortland Community College and Binghamton University, NSPE-NY Broome Chapter Scholarship Recipients Recognition.

SPEAKER: Jeff Smith, retired from the utility industry as Senior Vice President of Corporate Development and current President of Tier Energy Network (TEN)



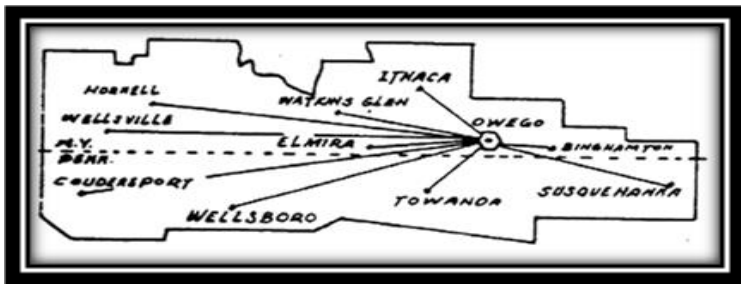
SUBJECT: The Next Wave of Innovation in the Southern Tier.

This presentation will provide the history of innovation in the Southern Tier and make the case that a new wave of innovation is emerging. The major developments will be detailed along with the critical challenges. A regional transformation strategy will be recommended.

PRESENTATION OUTLINE 1) The Valley of Opportunity, 2) Decline of Manufacturing, 3) The Climate Challenge, 4) A Decade of Innovation is Improving the Profile of the Southern Tier, 5) Importance of a Diversified Economy, 6) Critical Regional Challenges, 7) Re-imagine the Southern Tier, 8) How to Get Involved

Reservations due by Thursday, February 15, 2024

Make checks payable to Broome Chapter NYSSPE. Mail to: Engineers Week Dinner, c/o Wonjune Hong, 416 Jodie Drive, Vestal, NY 13850. Or visit our website at <https://www.broomepe.org/> for credit payment. If you need information, you may email Wonjune.hong@lmco.com. Sorry no refunds after February 15, 2024.



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

Twin Tiers Chapter– Employment Opportunities



Stantec Mechanical Engineer Job Opportunities

Stantec's diverse project portfolio encompasses multiple sectors including but not limited to; Commercial, Hospitality, Multi-Family Highrise, K-12/Higher Education, Transportation, Federal, Industrial, Science and Technology, and Infrastructure. Our collaborative teams enjoy working directly with clients as valued and respected project team members.

Stantec Buildings is on a mission to become the world's leading integrated design practice. Our architects, engineers, interior designers, sustainability specialists, and technologists are passionate about the power of design. We take an innovative, collaborative approach to projects, sharing a common belief that sustainable design for the built environment can make the world a better place for future generations.

Take the first step towards designing your career with Stantec, and Join an award-winning team that is passionate to bring transformational project solutions to life.

1. 3-5 Year Junior Mechanical Designer/Engineer:

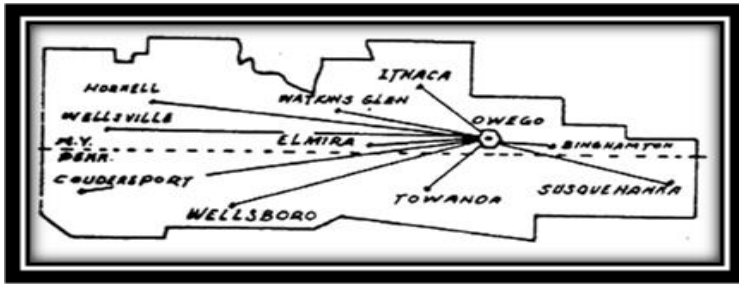
Stantec is seeking mechanical designers and engineers to work with general supervision and direction by our senior mechanical engineer staff, with the potential for growth. You will participate in the evaluation, recommendation, and specification for engineered systems or products for a project verifying compliance with applicable codes and engineering standards / practices. Your role as a Mechanical Designer on our team would be to work independently in the design of heating, ventilation, and air conditioning (HVAC) systems for assigned projects, through all phases of the project lifecycle. Base work/office location is flexible.

For more details on this opportunity and responsibilities and preferred capabilities, education, and experience regarding this opportunity, please refer to the following link:
[Mechanical Engineer - Stantec Careers \(selectminds.com\)](https://selectminds.com/careers/mechanical-engineer-stantec).

2. 7+ Year Mid-Level Mechanical Designer/Engineer:

Stantec is seeking a Mid-Level Mechanical Engineer to complement our team, with the potential for growth and leadership opportunities. You will work closely with the US Northeast Buildings Engineering group, to continue our business growth and enhance design excellence in the execution of projects through mentorship, leadership and interdisciplinary collaboration. Your role as an engineer on our team would be to proactively lead the design of heating, ventilation, and air conditioning (HVAC) systems for assigned projects, through all phases of the project lifecycle. This is a great opportunity for a Mechanical Engineer to build upon successes and experiences gained thus far in their career. A successful candidate for this position we use their working knowledge and collaborative skills to enhance, lead, and grow into an integral part of the success of the team around them. Base work/office location is flexible.

For more details on this opportunity responsibilities and preferred capabilities, education, and experience regarding this opportunity, please refer to the following link:
[Mechanical Engineer - Stantec Careers \(selectminds.com\)](https://selectminds.com/careers/mechanical-engineer-stantec)



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

Twin Tiers Chapter– Employment Opportunities



Stantec Mechanical Engineer Job Opportunities (Cont.)

2. 15+ Year Senior Mechanical Designer/Engineer and Project Management Lead:

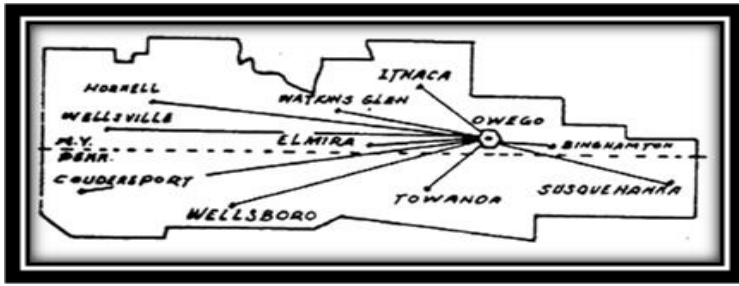
The role of Senior Mechanical Engineering and Project Manager Lead is to guide our Mechanical team and manage the design and delivery of small to large projects and to develop and maintain relations with current and future clients within our business line. You will represent project work in client meetings and be part of teams to cultivate relationships with client organizations.

As a Senior Engineer you will focus on the design, construction, operation and maintenance of mechanical systems for engineering projects of a complex nature. You would provide leadership and training to more junior professional and technical staff and provide technical guidance to less experienced professionals or technicians assigned to work on a common project. Intermittently, you would guide investigations and advise on unusual and difficult problems encountered in the mechanical engineering practice, and to use and apply advanced engineering principles and have a working knowledge of advanced technical research.

Your role would be to lead and manage our team in the design of Heating, Ventilation, and Air Conditioning (HVAC) and other mechanical systems, with a strong understanding of Plumbing and Fire Protection systems, through all phases of the project lifecycle. As a Senior Mechanical Lead, you would assist, and oversee staff on complex projects, evaluate, select, specify, and engineer all mechanical engineered systems or products for a project. This is a great opportunity for a Senior Mechanical Engineering and Project Manager Lead to grow and develop their career. A successful candidate for this position will use their working knowledge and collaborative skills to enhance, lead, and grow into an integral part of the success of the team around them. Base work/office location is flexible.

For more details on this opportunity and responsibilities and preferred capabilities, education, and experience regarding this opportunity, please refer to the following link:

[Senior Mechanical Engineering and Project Management Lead - Stantec Careers \(selectminds.com\)](https://selectminds.com)



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[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, 2023.
 - New subscription will run the calendar year 2024.
 - Cost to advertise for the 2024 year is \$50.
- Sign up now for the 2024 year on our website: <https://twintiersashrae.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](#).
- To pay for your advertisement please visit: <https://twintiersashrae.org>

Business Card Advertising 2024

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 2024. 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 2024 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](#)

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