



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 2015-2016



April Twin Tiers Chapter Meeting

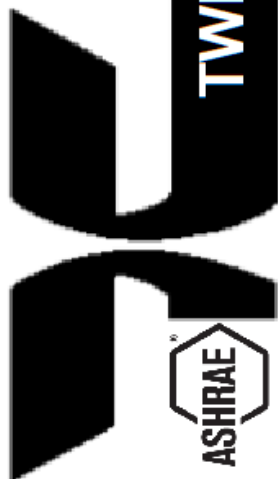
April 19, 2016

Spring Engineering Symposium!

Owego Treadway Inn 8:00–5:00

Earn up to 7.5 PDH!

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,

This month we're heading back to where Twin Tiers began, almost 40 years ago, for our Spring Symposium at the Owego Treadway Inn. I recently spoke with the guys at LaBella (formerly DPC Engineering) in Elmira Heights who used to participate and volunteer with Twin Tiers long ago. They remembered how Twin Tiers used to hold chapter meetings at the Treadway and Blue Dolphin, in Elmira. I only remember having one meeting there about 10-15 years ago, but this does remind me that we have quite an expanse between Corning, Alfred, Ithaca, Binghamton, and a few further areas East. The Owego Treadway Inn was the ideal location for most of our chapter meetings since it is 45 min's from the offices discussed above. I hope that in future meetings we try to circle back to a monthly meeting in Owego and Elmira in an effort to serve all of the engineering community within Twin Tiers.

I'd like to take a moment to give everyone a heads up. If you haven't heard, NY State will be issuing amendments to the 2015 IBC Codes as indicated in the 2016 Uniform Code Supplement. Important dates to remember here are (Relative to the date for which a building permit is obtained):

- All codes (Energy Code and Building Codes) will be in full effect by **Oct 3, 2016**.
- Fire Protection and Building Codes (Uniform Fire Prevention and Building Code (Uniform Code) – This includes all codes with the exception of the Energy Code: You have the choice between using new or previous codes from April 6, 2016 through October 3, 2016 in the transitional period.

As stated on the NY Building Codes website, "This rule will incorporate the 2015 IECC, ASHRAE 90.1-2013, and the 2015 Energy Code Supplement, as well as certain other referenced standards, by reference into 19 NYCRR Part 1240." More can be found here: http://www.dos.ny.gov/DCEA/noticerule_dev.html#Energy

Warm regards,
Doug Breese
Twin Tiers Chapter President

Chapter President



Doug Breese
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[Email Me!](#)

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[Email Me!](#)



Treasurer

Jacob Schatz
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Secretary

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Twin Tiers Chapter

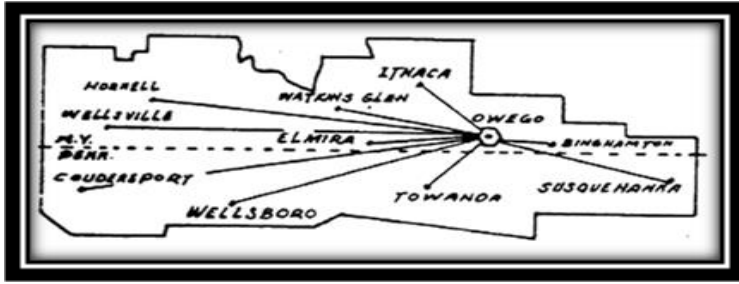
Presidential Award of Excellence (PAOE)

	Membership Promotion	Student Activities	Research Promotion	Historical	Chapter Operations	Chapter Technology Transfer	Grassroots Government Activities
MIN/PAR	500/800	300/500	800/1050	100/300	400/1000	450/1050	500/650
Current	550	686	910	500	825	500	525

POINTS CURRENT AS OF 4/11/2016

Chapter Committee Chairs

Technology Transfer Travis Fisher (607) 255-5608 Email Me!	Government Activities Petros Papathomopoulos (607) 723-9421 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 Jacob Schatz (315) 234-1543 Email Me!	H.O. Ward Scholarship Jason Gilbert (607) 777-2240 Email Me!
Research Promotion Andrew Nice 607-760-5960 Email Me!	Student Activities Jason Gilbert (607) 777-2240 Email Me!	Membership Directory Chris Wolak (484) 350-1954 Email Me!	Albarn Education Fund Richard Sanguinito (607) 231-6605 Email Me!
Honors & Awards Andrew Nice 607-760-5960 Email Me!	Historian Richard Sanguinito (607) 231-6605 Email Me!	Symposium– Fall/Spring Petros Papathomopoulos (607) 723-9421 Email Me!	Auditing Rick Sanguinito & Jason Gilbert (607) 231-6605 Email Me!
Webmaster Mike Colwell (607) 724-8282 Email Me!	Newsletter Editor Andrew Nice 607-760-5960 Email Me!	YEA: Young Engineers Travis R. Fisher/Devin Shapley (607) 255-5608 Email Me!	Publicity Andrew Nice 607-760-5960 Email Me!



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Scholarship Committee Message

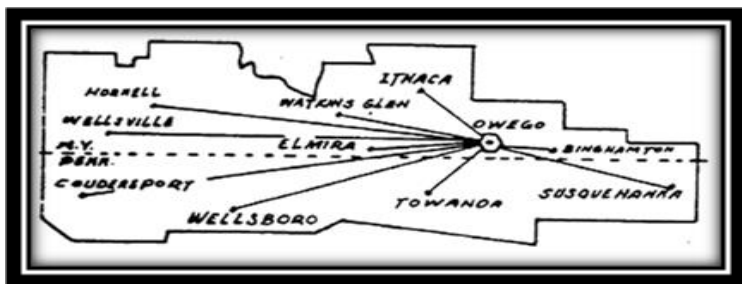
Twin Tiers Scholarship Committee

Rick Sanguinito

The Twin Tiers Chapter want to offer a special **THANK YOU** to Mr. & Mrs. David Stipanuk for their donation to the H. O. Ward Scholarship. This donation will enhance the 2016 Scholarship Awards to be announced at the 2016 Symposium.

Rick Sanguinito

Twin Tiers Scholarship Committee Chair



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

Twin Tiers Chapter– Monthly Meeting Information

2015-2016 Meeting Dates:

Date:	Speaker	Tech Session Topic, Tour or Meeting Info	Attendance:
15-Sep	Jason Gilbert / Rick Sanguinito	Dickinson Hall VRF HVAC, Plumbing, FP, and Structural Installation Tour & Presentation	23
20-Oct	Various / TBD	Fall Engineering Symposium - Daytime	
20-Oct	TBD	Brewery Tour	17
17-Nov	Art Studer (Postler & Jaeckle)	Huron Campus Chiller Plant Tour Themes: Refrigeration Night & History Night Region 1 Guest: Region 1 Director & Regional Chair – Bill Walter	14
15-Dec	Casey Bernhard, PE, LEED AP (Labella Associates)	Ithaca College Peggy R. Williams Center Tour Re-commissioning Presentation Theme: Past Presidents/Albern Lecture and Donor Recognition	24
19-Jan	Michael Patton (Griswold Water Systems)	ASHRAE Std. 188-2015 “Legionellosis: Risk Management for Building Water Systems. (PDH Approved) Theme: Student Night & Membership Promotion	28
10-Feb	Byron Horak (Intertek)	Joint Meeting with Syracuse Chapter, Presentation and Tour of Intertek facility Theme: Research Promotion	36
15-Mar	Jason Gilbert, PE (Binghamton University) Doug Rose, PE (M/E Engineering)	Binghamton University Building Tour & Presentation Theme: Student Night & YEA Night	50
19-Apr	Multiple/TBD	Spring Engineering Symposium—Daytime	
17-May	Lanny Joyce / Mark Howe (Cornell University)	Cornell University Building Tour & Presentation	
21-Jun	None	Golf Tournament	

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

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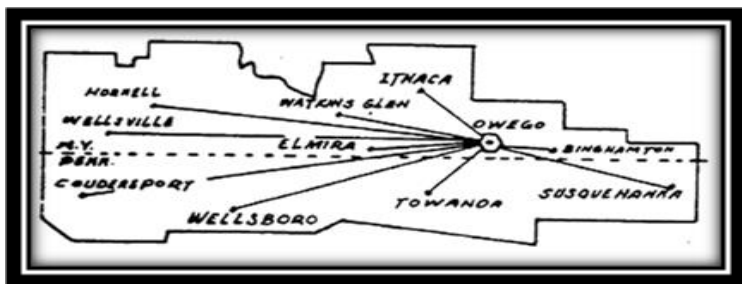
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American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

Twin Tiers Spring Symposium Announcement

ASHRAE

TWIN TIERS CHAPTER

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

Annual Spring Symposium and Professional Development Seminar

Tuesday, April 19, 2016, 8:30 A.M. – 5:00 P.M.

Owego Treadway Inn, 1100 State Route 17C, Owego, New York

EARN UP TO 7.5 FREE Professional DEVELOPMENT HOURS!

The ASHRAE Twin Tiers Chapter 2016 Spring Symposium provides a local opportunity to bring together practicing professionals, engineers, academics, contractors, owners and others to discuss with respected experts issues and challenges that our industry faces. This year's symposium offers attendees opportunities to review some of the industries latest energy efficient technology as well as techniques/methods that could employ them.

SCHEDULE OF EVENTS

8:00-8:30 A.M. Registration, Owego Treadway Inn Starfire/Terrace Foyer

Includes: Coffee, Muffins, & Fresh Fruit

8:30-10:00 A.M.

Starfire East

Starfire West

<p>"Adiabatic Cooling Systems; Wet When You Need It and Dry When You Don't"</p> <p>1.5 PDH</p> <p>Michael Silverstein, Güntner U.S. LLC</p>	<p>"Deep Energy Reduction and Net Zero Lab in the UAE: Mission Impossible?"</p> <p>1.5 PDH</p> <p>Gordon Sharp, Aircuity, Inc.</p>
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<p>"Deep Energy Reduction and Net Zero Lab in the UAE: Mission Impossible?"</p> <p>1.5 PDH</p> <p>Gordon Sharp, Aircuity, Inc.</p>

10:00-10:20 A.M. Morning Break – Starfire/Terrace Foyer

10:20-11:50 A.M.

Starfire East

Starfire West

<p>Seismic Restraint of Mechanical Systems</p> <p>1.5 PDH</p> <p>James R. Tauby P.E., Mason Engineering</p>	<p>"Modern Pump Selection for System Efficiency"</p> <p>1.5 PDH</p> <p>Steve Krisko, Frank P. Langley Co.</p>
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<p>"Modern Pump Selection for System Efficiency"</p> <p>1.5 PDH</p> <p>Steve Krisko, Frank P. Langley Co.</p>
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12:00-1:40 P.M. Lunch & Presentation Followed by the Monthly Chapter Meeting –Terrace

Lecturer: James A. D'Aloisio, Klepper, Hahn & Hyatt

Presentation: "Engineers, Envelopes, and the Commercial Energy Code"

1:40-3:10 P.M.

Starfire East

Starfire West

<p>"Building Automation Systems in 2016"</p> <p>1.5 PDH</p> <p>Scott Edwards, Johnson Controls</p>	<p>"Energy Storage: Why it Makes Sense"</p> <p>1.5 PDH</p> <p>Eric Berkowitz, CALMAC Mfg. Corp</p>
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<p>"Energy Storage: Why it Makes Sense"</p> <p>1.5 PDH</p> <p>Eric Berkowitz, CALMAC Mfg. Corp</p>

3:10-3:30 P.M. Afternoon Break – Starfire/Terrace Foyer

Includes: Soft Drinks & Snacks

3:30-5:00 P.M.

Starfire East

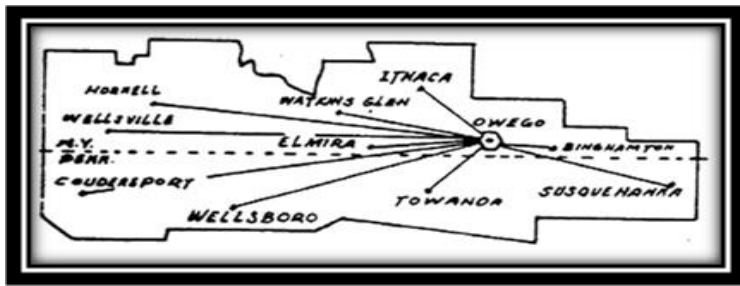
Starfire West

<p>"Building Automation System Critical Role within LEED"</p> <p>1.5 PDH</p> <p>Theodore Firnstein, Siemens Industry</p>	<p>"Storage Tanks and Oil/water Separators"</p> <p>1.5 PDH</p> <p>Robert Holland, Modern Welding Company</p>
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<p>"Storage Tanks and Oil/water Separators"</p> <p>1.5 PDH</p> <p>Robert Holland, Modern Welding Company</p>

Please Note: The ASHRAE Twin Tiers Chapter reserves the right to change the schedule, speakers and presentations without notice.

See our website for online registration! <http://twintiers.ashraechapters.org/>



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

Twin Tiers Annual Golf Tournament!



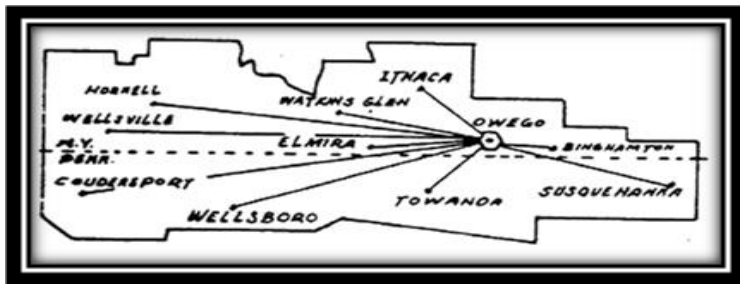
Annual Golf Tournament and Clambake

The date for the annual golf tournament and clambake is **Tuesday, June 21**. For the second year in a row, the two events are being held at different locations. The golf portion of the day will be held at **Vestal Hills Country Club**. The day will begin with a 10:00 am shotgun start. As in past years, the round will include lunch at the turn and keg beer all day. We will have prizes for the winning foursome, closest to pin and drive closest to the line. With its great success the past few years, the putting contest will also be returning.

The clambake will be held at nearby **Mountain Top Grove**, running from 4 pm to 8 pm. The menu will include clam chowder, raw and steamed hard shell clams, steak sandwiches, BBQ sandwiches, sausage, potatoes, corn, fresh salad, soft drinks, wine, and beer. There will be door prizes. Our hope is to see lots of non-golfers join all the golfers from earlier in the day.

Formal flyers and pricing are to follow. As always, the golf committee is looking for donations for door prizes and giveaways. Please contact Mike McGinnis, Matt Hawley, or Jason Gilbert with any questions. Thank you.

Note: Denim shorts, skirts, jackets, and jeans are prohibited throughout the club's facilities. Parties found in violation of dress code will be asked to change into acceptable clothing or purchase such from Pro Shop. If you are a team captain, please pass this along to your team members.



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

Twin Tiers Chapter– March BOG Meeting Minutes

MEETING MINUTES

The meeting was called to order at:

Board of Governors Meeting

Date: Tuesday 03/15/2016 @ 4:00P

Location: University Center of Excellence, BU

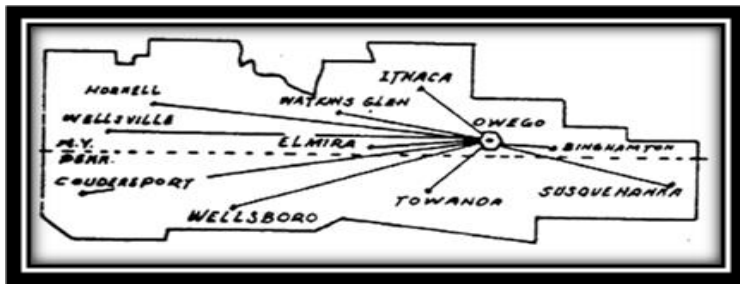
1. **Call to Order and Attendance: 4:02 pm**
 - a) Attendance: Doug, Devin, Andy, Chris, Rob, Jason
2. **General Announcements – Doug Breese**
 - a) Approval of February's Meeting minutes: **Motion by: Mike**
Second by: Chris
3. **Treasurer's Report – Jacob Schatz**
 - a) Treasurer's Report – accounts in good standing. *See attached Report*
 - Annual budgets. *See attached 11x17.*
4. **PAOE Responsibility – Doug (#2 in the rankings Grassroots and History within our Region)**

Chairs	Chair Contact	Current	Min	PAR
Membership Promotion	Chris Wolak	510	500	800
Student Activities	Jason Gilbert	636	300	500
RP	Andy Nice	820	800	1050
Historical Criteria	Rick Sanguinito	350	100	300
Chapter Operations	Doug Breese	825	400	1000
Grassroots Government Activities	Petros Papathomopoulos	525	500	650
Chapter Technology Transfer	Travis Fisher	500	450	1050

Travis – keep a running chapter speaker database and update the CTTC-RVC regularly during the year.

Chair Updates:

- a) Chapter Operations: CIQ on the horizon.
- b) Chapter Technology Transfer:
 - ☐ Speaker database update to RVC monthly – have not seen this yet. CC Doug
- c) Grassroots Government Activities: nothing to report
- d) Historical Criteria: nothing to report
- e) Refrigeration: nothing to report
- f) Membership Promotion:
 - ☐ MP Night – May-16 (Joint mtg – SFPE)
 - ☐ MBO Goal #1: Retain and increase membership by 2%, current membership is at 112.
 - ☐ MBO Goal #2: Reduce delinquency to 5% or less. Currently 19% are past 6 weeks overdue on renewing their annual chapter memberships. Currently 2 delinquents.



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

Twin Tiers Chapter– March BOG Meeting Minutes

- g) Resource Promotion:
 - ☐ 2015 2016 Goal is \$6,500 (High Five goal?)
- h) Student Activities:
 - ☐ Student Activity Night – Feb & March
 - ☐ Students going to next month's Chapter Meeting eat free thanks to Intertek's contribution last month.

5. Committees:

- a) Meeting Reception (D. Breese): Nametags & Sign-in sheet
- b) Student Committee (J. Gilbert):
 - ☐ Alfred (Jason to contact Dr. Joe C) and Cornell (Travis to take lead) contacts to be notified of end of Student Branch and if they'd like to renew they need to fill out forms from ASHRAE.
 - ☐ Jason to establish BU Student Branch.
 - 1. (3) Students are required to maintain a student branch and (10) are required to start a branch.
- c) Young Engineers (Travis and Devin Shapely):
 - ☐ April/May? - Water St Brewery? Jeopardy? Darts?
- d) Newsletter (A. Nice): Looking good
- e) Publicity (A. Nice): NEW LinkedIn Group <https://www.linkedin.com/groups/8482932>
- f) Webmaster (M. Colwell): Symposium info and Paypal buttons are up and running.
- g) Symposium (P. Papathomopoulos): updates? PDH's?
- h) Golf & Clambake (Mike McGinnis): June 21st Vestal Hill's and Mountain Top
- i) Honors and Awards (D. Breese): Chapter Service awards, due May 1

6. Old Business

- a) ASHRAE TT to receive a \$50 per person credit for each person that attended the CRC from the region.

7. New Business

- a) None

Meeting adjourned at 4:45 PM Motion by: Andy

Second by: Rob

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**Thank you
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2016 Business Cards



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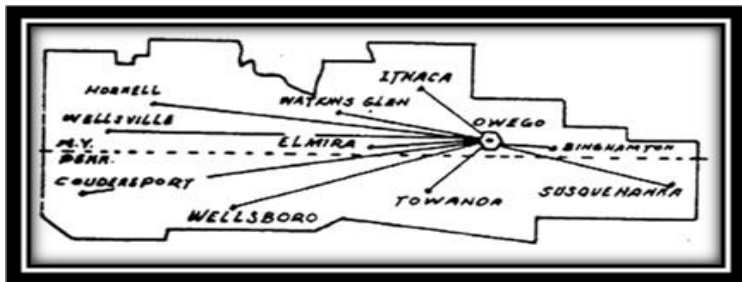
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American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.



**2016 REGION I CHAPTER REGIONAL CONFERENCE
AUGUST 18-20 ROCHESTER, NY**

Welcome to Rochester, NY

We are honored to be hosting the 2016 Region I Chapter Regional Conference. The city of Rochester has a lot to offer and we are excited to show it off.

Our CRC planning committee is hard at work pulling all the details together; we have a good venue in place that should be fun for all. Our goal is to have a top notch event and great food at an affordable price.

The main event will take place at the Hyatt Regency downtown which is in close proximity to all off site CRC events and many other activities the city has to offer. The hotel has wonderful views of the Genesee River or the city skyline.

Companion activities will be fun for both guests and kids alike. The companion tour will consist of a half day tour of the historic George Eastman Museum & Artisan Works with lunch at the Gate House. The family tour will be at the world-renowned Strong Museum of Play. You will receive an all-day pass with lunch provided. You will have to pry the kids away when it's time to leave! Your inner child could spend hours in the museum's classic video game exhibit.

Please make sure you tell all of the members in your chapter and we look forward to seeing you all in Rochester on August 18th.



Jim Browne, CRC Chairman

Conference Registration Fees

Registration Type	By July 15, 2016	After July 15, 2016
Full Conference	\$370	\$450
Companion Full Conference	\$220	\$270
Kids Full Conference	FREE	FREE
Family Tour (Strong Museum of Play & Lunch)	\$15	\$15
Companion Tour (George Eastman Museum, Artisan Works & Lunch)	\$35	\$35
YEA Event (Genesee Brew House)	FREE	FREE
Friday/Saturday Conference	\$220	\$270
Friday/Saturday Companion	\$130	\$160
Saturday Only	\$120	\$150
Thursday Dinner Only (One East Ave Penthouse)	\$65	\$65
Friday Dinner Only (Hyatt Ballroom)	\$85	\$85

Conference Registration and Hotel Reservations can be made at: www.ashrae2016crc.com

Hyatt Regency Room Rate: \$115 + taxes & fees

Hyatt Regency web link:

<http://rochester.hyatt.com/en/hotel/home.html>

Note: Hotel reservation is separate from conference registration.





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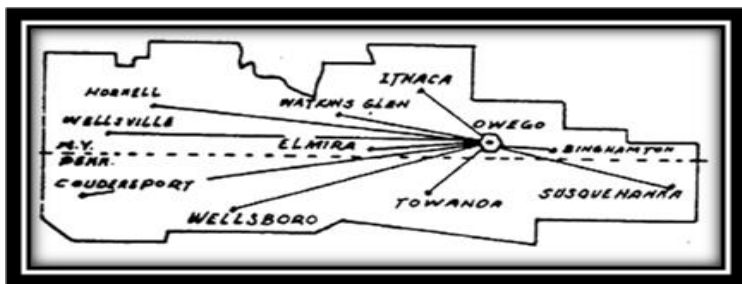
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Funny to the untrained Plumber's Eye?

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***** 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



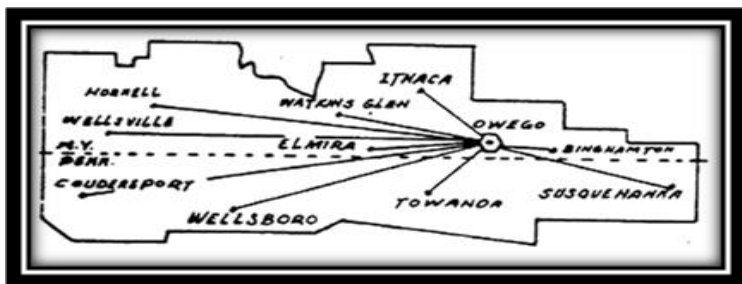
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TRAINING

New Course on Variable Refrigerant Flow Offered in ASHRAE Spring Online Courses

ATLANTA – A new course, “Variable Refrigerant Flow System Design & Application,” is one of 11 offerings in ASHRAE’s Spring Online Course series.

Variable refrigerant flow (VRF) systems are now being applied in a range of building types across North America. Benefits of VRF include zoning applications, variable capacity, distributed control, low operating sound, simultaneous heating and cooling, effective energy usage, quick installation, low ambient operation and low maintenance costs.

The course, which takes place May 16, provides non-manufacturer specific concepts of how to apply VRF systems to buildings. It will supplement the fundamental technology introduction presented in the 2012 ASHRAE Handbook, HVAC Systems and Equipment, offering the consulting engineers who already have a basic knowledge of VRF technology.

Eleven online professional development seminars focused on commissioning, environmental quality, energy efficiency, HVAC applications, and standards and guidelines are being offered this fall by the ASHRAE Learning Institute (ALI).

Participants can access these instructor-led courses from anywhere with an Internet connection, and earn continuing education units/professional development hours for each course completed.

ALI courses provide professional development through in-depth information that is timely, practical and advanced beyond a fundamental level. Online courses are offered every spring and fall.

For pricing or to register, visit www.ashrae.org/onlinecourses. The courses offered this fall cover a variety of topics relevant to today’s built environment, including:

- Commissioning Process & Standard 202, March 30
- Energy Efficiency Combined Heat & Power: Creating Efficiency through Design & Operations, March 28
- IT Equipment Design Evolution & Data Center Operation Optimization, April 6
- Air-to-Air Energy Recovery Applications: Best Practices, April 27
- Laboratory Design: The Basics and Beyond, April 18
- Operation & Maintenance of High-Performance Buildings, May 17 and 18
- Variable Refrigerant Flow System Design & Applications, May 16
- ASHRAE Standard 188-2015 – Successfully Managing the Risk of Legionellosis, April 25
- Complying with Standard 90.1-2013: HVAC/Mechanical, April 13
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INDUSTRY ARTICLE

Governor Cuomo Announces \$20 Million for Binghamton University to Establish New York Node of Nationwide Advanced Manufacturing Initiative

www.governor.ny.gov

By Press Office of NYS Governor Apr. 6, 2016

Binghamton University and NYS Industry Partners – including GE Global Research, Corning, Inc., Lockheed Martin, and i3 Electronics, Inc. – will lead New York node in the Department of Defense’s national “NextFlex” \$75 million, five-year initiative to advance flexible hybrid electronics manufacturing

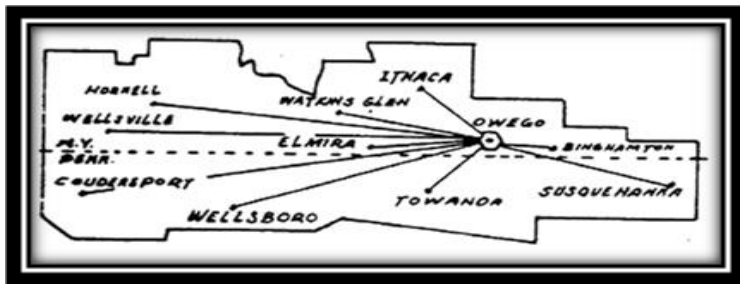
Consortium was part of region’s successful Upstate Revitalization Initiative submission – “Southern Tier Soaring” – and today’s state funding marks the first allocation from that award

Governor Andrew M. Cuomo today announced \$20 million to support Binghamton University in its leading role as home to the New York node in the new NextFlex Flexible Hybrid Electronics Manufacturing Innovation Institute. The Institute is part of the National Network for Manufacturing Innovation program, which is an initiative of the Obama Administration to support advanced manufacturing in the U.S.



The state’s \$20 million commitment, which is the first allocation from the Southern Tier’s \$500 million Upstate Revitalization Initiative award and matches a federal National Manufacturing Innovation Institute award announced last year by the U.S. Department of Defense, will support the retrofitting of space in the former IBM facility in Endicott, as well as specific projects and new businesses that will be utilizing the space. The first year of the program is expected to create up to 200 academic and private sector jobs, with the potential for the creation of up to 1,000 new jobs over the five years of the Flex Tech Alliance Program.

“Southern Tier Soaring is the roadmap toward a stronger economy, and the state’s \$500 million award is proof that we believe in the potential of the region’s future,” said **Governor Cuomo**. “By leading the New York node of this national initiative, Binghamton University and its private sector partners are leveraging their collective strengths and raising New York’s profile as a global leader in innovation and technology. This is a shining example of how the Upstate economy is turning around, and I look forward to seeing what it can be and will be in the years to come.”



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

INDUSTRY ARTICLE

Governor Cuomo Announces \$20 Million for Binghamton University to Establish New York Node of Nationwide Advanced Manufacturing Initiative (Cont.)

Including the \$20 million award announced last year by the Department of Defense, the total federal award is \$75 million over five-years, which has already attracted nearly \$100 million in matching funds and additional support from non-federal sources, private companies, academia, not-for-profit organizations, and several states. Flexible electronics uses both traditional chips as well as printed electronics on plastic, thin glass, paper and fabric materials that can bend. The technology has a range of applications, including health-monitoring patches, medical devices, sensors, imaging systems, prosthetic devices, energy storage and energy harvesting devices.

The Department of Defense chose the FlexTech Alliance, of which Binghamton University is a founding proposal partner, to establish "NextFlex" as America's first Flexible Hybrid Electronics Manufacturing Innovation Institute. New York State played a critical role in the successful proposal, pledging up to \$20 million in matching funds to support and strengthen the FlexTech proposal. The funding will help Binghamton University retrofit space at the Huron Campus in Endicott, enabling the University to attract companies like GE Global Research, Corning, Lockheed Martin and i3 Electronics to conduct research and development and create jobs in the Southern Tier, instead of outside New York State. The \$20 million will be disbursed over the five-year period of the NextFlex program and will support specific Flexible Hybrid Electronics Manufacturing Innovation Institute projects as they come to fruition.

Binghamton University President Harvey Stenger, who also serves as Co-Chair of the Southern Tier Regional Economic Development Council, said: "The Flex Tech Alliance and Binghamton University have been leaders in the advancement of flexible electronics manufacturing for nearly a decade. This latest news is an extraordinary affirmation of the work being done by the Alliance and of the work being done by our own researchers here on campus. We want to thank our federal representatives, Senator Schumer, Senator Gillibrand and Congressman Hanna for their support on this federal initiative. We also want to thank Gov. Cuomo and our state officials for supporting the \$20 million New York State matching funds that were crucial to making the FlexTech application stronger and more competitive."

"Our region's URI plan emphasizes revitalizing Endicott by building on our focus on advanced manufacturing," said **Assemblywoman Donna Lupardo (D-Endwell)**. "As a result of this investment, companies that use flexible technology will be attracted to locate their businesses here to take advantage of the research being conducted at the Huron campus."

Empire State Development President, CEO & Commissioner Howard Zemsky said: "This administration recognizes the importance of bolstering our state's burgeoning advanced manufacturing industry, especially in Upstate New York. By matching the federal funding for this initiative, we are supporting creative tech-based projects and increasing the amount of well-paying, innovation economy jobs in the Southern Tier and New York State."

Binghamton University and its industry partners, including General Electric Global Research, Corning Incorporated, Lockheed Martin and i3 Electronics Incorporated were uniquely positioned to have a leadership role in this National Manufacturing Innovation Institute through the establishment of a cohesive New York State node, as each partner has a strong history of developing economically relevant technologies. Additionally, additional academic partners, including Cornell University and SUNY research campuses, are expected to participate.



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INDUSTRY ARTICLE

Governor Cuomo Announces \$20 Million for Binghamton University to Establish New York Node of Nationwide Advanced Manufacturing Initiative (Cont.)

Together, Binghamton University and its consortium partners will work to develop and then transfer advancements in the field of flexible electronics from the lab to the commercial market. Binghamton and its industry cohorts have already experienced manufacturing successes and expect many more to result from this significant investment. Some of the successes thus far include:

- electronic packaging and reliability;
- thermal interface materials;
- thin chip-on-flex electronic systems-in-package technology;
- power conversion electronics packaging;
- biomedical and diagnostic electronics;
- human performance monitors; sensory systems;
- thin flexible glass for use in flexible electronics and displays;
- 2.5D electronic interposers and functional glass surfaces such as arrays of transparent antennas;
- touch sensitive surfaces; and
- energy storage and conversion.

As part of the Obama administration's National Network for Manufacturing Innovation, the NextFlex Flexible Hybrid Electronics Manufacturing Innovation Institute is part of a growing network dedicated to securing U.S. leadership in the emerging technologies required to win the next generation of advanced manufacturing. In the coming months, the New York node will work closely with the NextFlex Institute to develop roadmaps and project plans; the consortium expects to begin selecting projects in Q2 2016.

Accelerating Southern Tier Soaring

Today's announcement accelerates "Southern Tier Soaring," the region's comprehensive blueprint to generate robust economic growth and community development. The State has already invested more than \$3.1 billion in the region since 2012 to support the plan – attracting a talented workforce, growing business and driving innovation. Today, unemployment is down to the lowest levels since before the Great Recession; personal and corporate income taxes are down; and businesses are choosing places like Binghamton, Johnson City and Corning as a destination in which to grow and invest.

Now, the region is accelerating Southern Tier Soaring with a \$500 million State investment through the Upstate Revitalization Initiative, announced by Governor Cuomo in December 2015. The State's \$500 million investment will incentivize private business to invest well over \$2.5 billion – and the region's plan, as submitted, projects up to 10,200 new jobs.

"Governor Cuomo Announces \$20 Million for Binghamton University to Establish New York Node of Nationwide Advanced Manufacturing Initiative." New York State Governor Andrew M. Cuomo. Press Office of the New York State Governor, 6 Apr. 2016. Web. 11 Apr. 2016. <<https://www.governor.ny.gov/news/governor-cuomo-announces-20-million-binghamton-university-establish-new-york-node-nationwide>>.

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

Twin Tiers Chapter– Employment Opportunities

MECHANICAL ENGINEER

CORNING

Job Number: 179603

Location: Corning, NY

Are you interested in “Life Changing Innovation”? As with Thomas Edison, we have a history of working with the world’s greatest innovators. We solve our customers’ most complex problems that others can’t or won’t. Collaboration, Innovative Spirit and Career Development are just a few of the reasons world class professionals choose Corning Incorporated for a career. We are headquartered in Corning - a vibrant city in Upstate, NY where residents enjoy the benefits of a rich arts and culture scene, one of the world’s fastest-growing wine regions and a family friendly area with affordable homes and quality education.

Corning is the world leader in specialty glass and ceramics, creating and manufacturing keystone components that enable high-technology systems.

Corning’s history is filled with breakthrough technologies that have played an important role in the way the world works. We thrive on solving difficult, commercially relevant problems through an innovative and collaborative research and development process. Corning succeeds through sustained investment in R&D, more than 160 years of materials science and process engineering knowledge, and a distinctive collaborative culture.

Scope of Position:

- Provide HVAC engineering support within the Business Services Division (BSD) Facility Operations Engineering Department at Sullivan Park (SP).
- Assume a primary role of “HVAC Engineer” for the Facilities Operations organization.
- Additionally, support and lead various engineering projects within our organization.
- Participate on and/or lead 6-Sigma DMAIC or DESGN Performance Excellence projects.
- Identify improvement opportunities, justify, and lead implementation of those improvements.
- Complete process documentation as required.

Day to Day Responsibilities:

- Provide HVAC engineering support for maintenance and project support.
- Troubleshoot facility equipment including: Air Handling Units, Make-up Air Units, AC units, Exhaust fans (centrifugal/DEF), return air fans, HW packaged boiler systems and piping distribution, central chilled water system and piping distribution.
- Develop preventative maintenance programs for HVAC systems
- Identify HVAC training needs for Maintenance Group as required.
- Provide energy management/reduction support.
- Audit, revise, create process documentation for HVAC systems
- Provide occasional after hours technical support, ie. On-call or weekend support.



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

Twin Tiers Chapter– Employment Opportunities

MECHANICAL ENGINEER (Cont.)

CORNING

Travel Requirements: Minimal

Hours of work/work schedule/flex-time:

- Standard 40 hour work week, plus occasional weekend project work and on-call coverage – (1) week per (2) month period.

Education and Experience:

- Min. 4 yr Bachelors of Science Degree
- Min. 4 years HVAC experience in Facilities Operations/HVAC Industry

Qualifications:

- HVAC Equipment experience – must be highly skilled in HVAC system design and operation.
- Perform engineering calculations of building heating/cooling loads, energy profiles, equipment selections, sizing of duct-work/piping distribution systems.
- Working knowledge of Facilities equipment and associated Building Control Management System operation.
- Hands-on troubleshooting experience and excellent troubleshooting skills and ability.
- Must have experience leading significant HVAC projects.
- Good communication and interpersonal skills, capable of working with all payrolls
- Good planning and organizational skills, capable of handling multiple tasks and priorities
- Self-starter, results oriented, requiring minimal supervision
- Basic CAD skills (preferably ACAD)
- Basic MS Office skills (MS Word, Excel, Power Point, MS Outlook w/ scheduling capability)
- Prior experience in either installation, system design, or maintenance of building infrastructure equipment.
- Process Control and Discipline knowledge and application experience, SPC understanding, Data Analysis experience using various statistical tools (ie: SPC XL, DOE Pro, Minitab, other)
- Understanding of quality systems (ie: Performance Excellence 6-Sigma, KT, Manufacturing Excellence, ISO)
- Additional computer skills (VISIO, Access, Tabware, Peoplesoft, ACAD and Revit BIM)
- Experience writing Process documentation (SOP's, Machine Specs, O&M's)
- Experience working in a Union environment
- Experience working in a Manufacturing environment.

EOE/AA including Veterans and Disabled.

**IF YOU ARE INTERESTED IN THIS OPPORTUNITY, PLEASE FEEL FREE TO CONTACT DAVID WATKINS AT
716-688-6751 OR WATKINS@CORNING.COM**



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

Twin Tiers Chapter– Employment Opportunities

LABELLA

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SENIOR MECHANICAL ENGINEER – PROJECT MANAGER

LaBella Associates, D.P.C. is one of the area's Top 2015 Workplaces. We are headquartered in Rochester's High Falls District with offices across New York and in Maine, North Carolina, Ohio, Pennsylvania, and an office in Madrid, Spain. We are a multi-disciplined architectural and engineering firm dedicated to client satisfaction through teamwork, respect, and trust.

We are currently seeking a Senior Mechanical Engineer to lead mechanical project teams in our Elmira Heights, NY office. Project work will involve clients in multiple Market Sectors. This position will report to the Mechanical Engineering Discipline Leader.

Responsibilities:

- Work closely with the mechanical engineering staff to develop concepts, strategies, construction documents and engineering reports for new building and renovation projects.
- Assist the energy group in conducting Energy Audits for Municipal, Commercial, and Industrial clients.
- Recognize energy reduction potential in buildings through the use of high efficiency equipment.
- Mentoring, guidance and performance appraisal for the mechanical engineering team.
- Client and Business Development.
- Proposal writing to initiate new business.
- Work with Commissioning Teams as necessary to provide reinforcement to this market focus.

The ideal candidate will possess:

- Bachelor's degree in Mechanical Engineering.
- Minimum 10 years engineering experience with a professional A/E services firm.
- Strong writing, organizational and communications skills
- Ability to work under pressure, and multi-task efficiently
- A New York PE license is mandatory.
- Familiarity with NYSERDA and the related incentive programs.

Resumes should be accompanied by a cover letter demonstrating how your past experience qualifies you for this position. All inquiries will be kept confidential.

LaBella offers a strong benefits package including health insurance, dental insurance, professional development, paid time off, 401k and much more.

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

Twin Tiers Chapter– Employment Opportunities

LaBella

Associates

Engineering
Architecture
Environmental
Planning

Mechanical Engineer

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We are currently seeking a Mechanical Engineer with a strong focus and background in Building Projects to work in our Elmira Heights, NY Office. This position will work closely with the mechanical engineering staff to develop concepts, strategies, designs, drawings, specifications and reports.

Individual must be able to work independently, as well as part of multi-discipline teams producing mechanical engineering documents. Individual must have well rounded experience in HVAC design. Energy conservation and commissioning experience is a plus. A Bachelor's degree and minimum of 4 years of experience working at an A/E consulting firm preferred.

Resumes should be accompanied by a cover letter demonstrating how your past experience qualifies you for this position. All inquiries will be kept confidential.

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Twin Tiers Chapter– Employment Opportunities

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Junior Electrical Engineer

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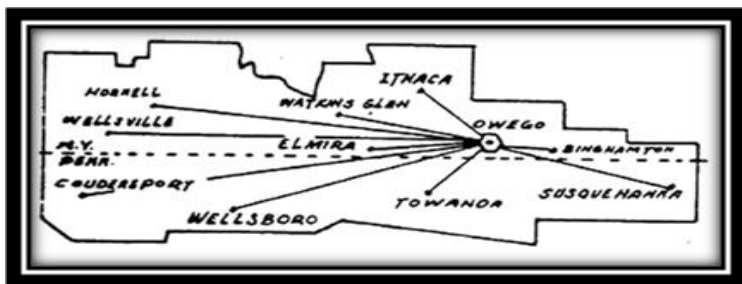
We are currently seeking a Junior Level Electrical Engineer with a career interest in Building Projects to work in our Elmira Heights, NY office. This position will work with other Engineers as part of a Project Team to develop concepts, strategies, designs, drawings, specifications and reports. Duties may also include assisting with energy clients.

AutoCad experience required. Bachelor's degree and a minimum of two years experience in the A/E consulting business is required.

Resumes should be accompanied by a cover letter demonstrating how your past experience qualifies you for this position. All inquiries will be kept confidential.

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Twin Tiers Chapter– Business Cards Advertisement for Newsletter

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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 2016. This is a great opportunity to get your name and business in front of the over 200 subscribers to our chapter newsletter. The price for the newsletter only is \$50 for the entire 2016 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?

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We welcome your feedback!



ASHRAE Mission Statement

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

Ethics Requirement for PE

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

ASHRAE Vision Statement

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

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

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

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

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