



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 2017-2018



Shaping Tomorrow's
Built Environment Today

January Meeting
January 16, 2018

TOUR:

Cornell University Upson Hall

TOUR GUIDES:

Peter Meenan, Lou Damiani, Mark Howe, & Lanny Joyce

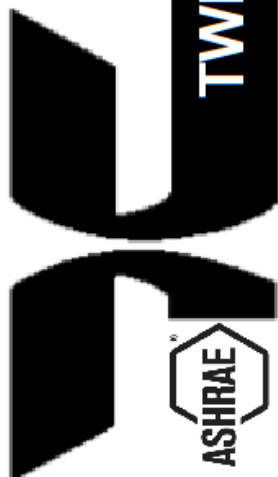
PRESENTATION:

Cornell Sustainable Energy & Upson Hall

SPEAKERS:

Lanny Joyce & Mark Howe

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.



President's

Corner

Dear Twin Tiers Chapter Members,

Happy new year to you all. I hope you celebrated the start of 2018 in good spirits with family and friends. Now that we're a few days into the new year, it's good to look ahead and think about what this year may bring us.

For January, we will be taking a tour of Upson Hall at Cornell University, followed by our monthly chapter meeting. Mark Howe and Lanny Joyce will give an after-dinner overview of central campus energy systems at Cornell, a description of the Upson Hall project, controls, and lessons learned, and will provide an update on climate action planning efforts. For complete details of this month's meeting refer to our Chapter Newsletter.

Over the years, Cornell University staff have been graciously giving multiple tours and presentations of their facilities/projects each year and have been the epicenter of our Ithaca based Chapter meetings. Thank you for all your support!

January is also the month for the ASHRAE Winter Conference & AHR Expo that will be held in Chicago, from 01/20-01/24. The 2018 Expo will host more than 2,000 exhibitors and 65,000 industry professionals. When you register for the ASHRAE Conference, your ASHRAE badge will give you access to the AHR Expo. The complete schedule, registration and miscellaneous information can be found at the society website at www.ashrae.org.

Last month we had a great time for Past Presidents' night. We got to meet or reconnect with a lot of the people that laid the foundation for what today is our chapter. We heard a lot of interesting stories of times past, some of the challenges and lessons learned during the chapter's first years. The meeting concluded with a very interesting presentation by ASHRAE Distinguished Lecturer, William P. Bahnfleth, PH.D., P.E.

Once again, I wish you all the best for a prosperous and healthy 2018,

-Petros Papathomopoulos
Twin Tiers Chapter President

Chapter President



Petros Papathomopoulos
(607) 723-9421

[Email Me!](#)

2017-2018 Chapter Officers

President-Elect

Michael McGinnis
(607) 727-3168

[Email Me!](#)



Vice President

Kyle Nedlik
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[Email Me!](#)



Treasurer

Devin Shapley
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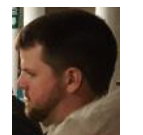
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Secretary

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Twin Tiers Chapter

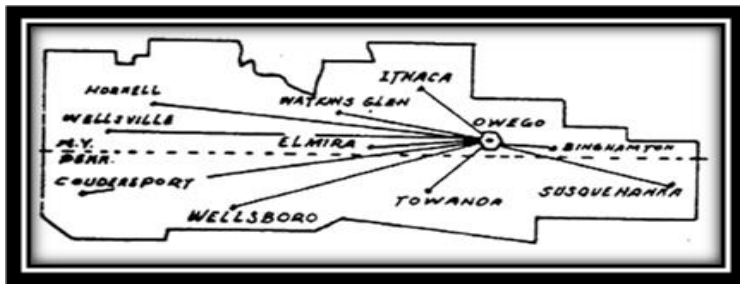
Presidential Award of Excellence (PAOE)

	Chapter Operations	Chapter Technology Transfer	Electronic Communications	Grassroots Government Activities	Historical	Membership Promotion	Research Promotion	Student Activities
MIN/ PAR	600/1200	450/1050	250/500	500/650	100/300	500/800	800/1050	300/500
Current	770	725	157	700	685	760	430	225

POINTS CURRENT AS OF 1/11/2018

Chapter Committee Chairs

Technology Transfer Michael McGinnis (607)727-3168 Email Me!	Government Activities Adam Keller (315) 487-8791 Email Me!	Refrigeration Rob VanSkiver (585) 591-8168 Email Me!	Golf & Clambake Outing Michael McGinnis (607)727-3168 Email Me!
Membership Promotion Chris Wolak (484) 350-1954 Email Me!	Nominating Andrew Nice 607-760-5960 Email Me!	Meeting Reception Devin Shapley (607)723-4979 Email Me!	H.O. Ward Scholarship Richard Sanguinito (607) 231-6605 Email Me!
Research Promotion Glenn Roberts (315)234-1527 Email Me!	Student Activities Victoria Kramer (607) 321-6127 Email Me!	Membership Directory Chris Wolak (484) 350-1954 Email Me!	Albern Education Fund Jason Gilbert (607) 777-2240 Email Me!
Honors & Awards Petros Papathomopoulos (607) 723-9421 Email Me!	Historian Richard Sanguinito (607) 231-6605 Email Me!	Symposium– Fall/Spring Kyle Nedlik (607) 321-6100 Email Me!	Auditing Rick Sanguinito & Andrew Nice (607) 231-6605 / 607-760-5960 Email Me!
Webmaster Mike Colwell (570) 706-0690 Email Me!	Newsletter Editor Andrew Nice 607-760-5960 Email Me!	YEA: Young Engineers Devin Shapley (607)723-4979 Email Me!	Publicity Andrew Nice 607-760-5960 Email Me!



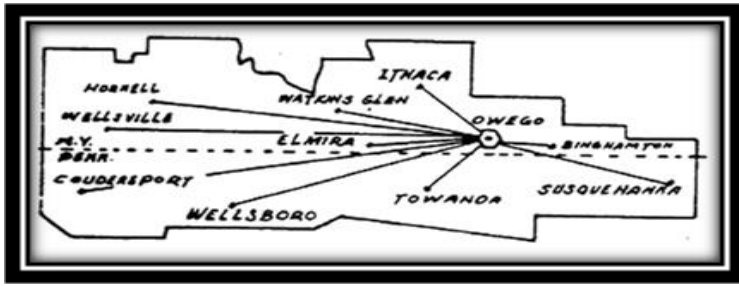
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Twin Tiers Chapter– Monthly Meeting Information

2017-2018 Meeting Dates:

Date:	Speaker	Tech Session Topic, Tour or Meeting Info	Attendance:
19-Sep	Adam Keller, Pro Air Plus Jerry Meyer Jr., MIS of America	Cooling Tower Basics Cooling Tower Shut-down and NSF Legionella Guideline	27
17-Oct	Multiple/TBD	Fall Engineering Symposium—Daytime	67
21-Nov	Michael Collins, Eagle Bay Refrigeration	TOUR Cornell University Lynah Ice Rink Refrigerant Update	12
19-Dec	William P. Bahnfleth, Ph.D., P.E., ASHRAE Distinguished Lecturer	Integrating Indoor Air Quality and Energy Efficiency in Buildings	31
16-Jan	Lanny Joyce, Mark Howe, Lou Damiani, Pete Meenan, Cornell University	TOUR Upson Hall Cornell University High performance building design - Sibley School of Mechanical and Aerospace Engineering building	
20-Feb	Jason Gilbert	TOUR Binghamton University Building	
20-Mar	Ernie Nitsche	TOUR Corning Inc. Sullivan Park Process HVAC Systems, Energy Management at Corning Inc.	
17-Apr	Multiple/TBD	Spring Engineering Symposium—Daytime	
15-May	Doug Clay, Sack Engineering	TOUR Tompkins Trust Building New Tompkins Trust HQ Project – Water Source VRF, DOAS, Cooling Tower, Boilers	
19-Jun	None	Golf Tournament	

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



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

Twin Tiers ASHRAE H.O. Ward Scholarship



By
Rick Sanguinito Historian 2017-2018

H. O. WARD SCHOLARSHIP

Date: January 12, 2018

Last year we had Three scholarship recipients

Doris Wong	\$1,000 Scholarship
Melissa Gross	\$500 Scholarship
George Pappass	\$500 Scholarship

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

Please consider passing this application to your children or grandchildren. The program is guided for HVAC interest. This would include but not limited to

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

APPLICATIONS MUST BE SUBMITTED BY FEBRUARY 15, 2018

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

January Meeting Announcement

January 16, 2018

January Chapter Meeting

DATE: Tuesday, January 16th, 2018

TIME: 5:00PM

TOUR LOCATION: Cornell University Upson Hall

TOUR GUIDES: Peter Meenan, Senior Controls Technician
 Lou Damiani, Energy Project Coordinator
 Mark Howe, Manager, Utilities Distribution and Energy Management
 Lanny Joyce, Director, Utilities and Energy Management

MEETING LOCATION: Statler Hotel at Cornell University
 130 Statler Drive
 Ithaca, NY 14853

PRESENTATION: Cornell Sustainable Energy and Upson Hall

SPEAKERS: Mark Howe, Manager, Utilities Distribution and Energy Management
 Lanny Joyce, Director, Utilities and Energy Management

AGENDA: 5:00 – 5:15 – Arrive for Tour
 5:15 – 6:15 – Tour of Upson Hall
 6:30 – 8:00 – Dinner, Brief Chapter Meeting, and Presentation

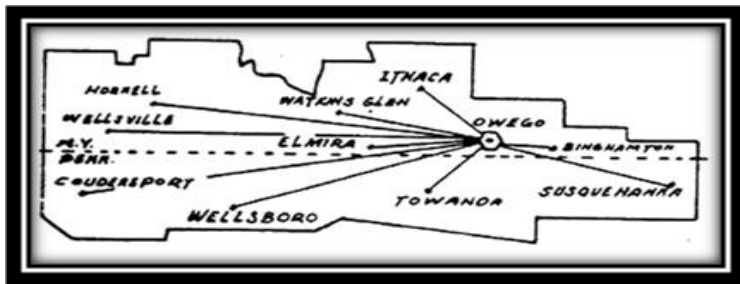
MENU: Buffet Dinner

REGISTRATION: Register online at <http://twintiers.ashraechapters.org/> (Under the “Programs” Tab)
 \$25.00 Early Registration (By 1/12/2018)
 \$30.00 (After 1/12/2018)

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

E: [Email Me!](mailto:mike.mcginnis@cornell.edu)

C: 607-727-3168



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

Twin Tiers Chapter - December BOG Meeting Minutes



<http://twintiers.ashraechapters.org>

Board of Governors Meeting

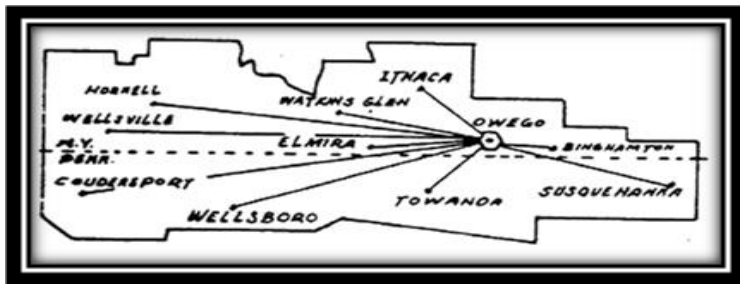
Date: December 19, 2017

Location: Marriott Downtown,
Ithaca, NY

Agenda

Meeting was called to order at 4:19pm

- Call to Order and Attendance: Kyle N., Rob V., Glenn R., Mike M., Adam K., Devin S., Andy N, Jason G., Rick S., Chris W., Petros P.
- General Announcements:
- Treasurer's Report (Devin Shapley):
ALL ACCOUNTS ARE IN GOOD STANDING
- CTTC (Mike McGinnis / Kyle Nedlik)
 - Spring Symposium(Kyle): Speakers to be lined up after the new year
 - Monthly Meetings (Mike): January Meeting location/theme
 - Upson Hall, Cornell. Dinner @ the Statler
 - March Meeting – Corning not appearing likely, Wegmans to replace?
 -
- YEA (Devin Shapley/Victoria Kramer):
 - February – ASHRAE Jeopardy
- Membership Promotion (Chris Wolak):
- GGAC (Adam Keller):
 - Day on the hill in May, Volunteers needed
- Student Activities (Jason Gilbert): E-Board to Organize GIM
 - Update on student budget to Chicago? May not be going?
 - No Alfred Update
 - Meeting with BCC to gauge interest
 - WW?
- Research Promotion (Glenn Roberts):
 - Motion by Petros P. To hit 30% goal NTE \$1300, Second – Mike M.



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

Twin Tiers Chapter - December BOG Meeting Minutes



<http://twintiers.ashraechapters.org>

Board of Governors Meeting

Date: December 19, 2017

Location: Marriott Downtown,
Ithaca, NY

- PAOE (Petros Papathomopoulos): Reminder to chairs that they can update PAOE points.

CATEGORY	PAR	MIN	PTS
Chapter Operations*	1200	600	770
Chapter Technology Transfer*	1050	450	725
Electronic Communications	500	250	157
Grassroots Government Advocacy*	650	500	400
Historical Criteria	300	100	685
Membership Promotion*	800	500	885
RP*	1050	800	430
Student Activities*	500	300	225

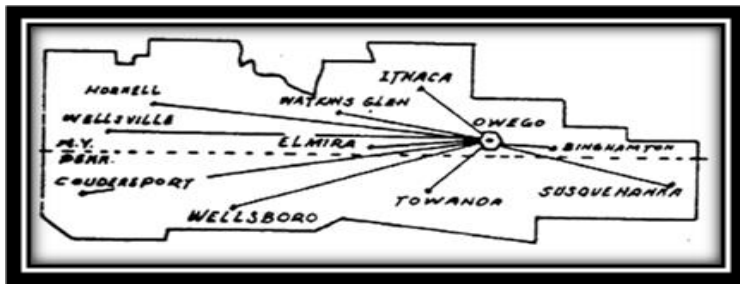
PAOE requires achieving minimum in 5 of the 6 categories marked with *.

- New Business
 - Habitat for Humanity volunteering opportunity (CO39 & CO40 Chapter sponsored community sustainability project and publicity).
- Old Business
 - Tompkins Trust online access has been established.

Meeting was adjourned at 4:59pm

Motioned: Petros P.

Second: Rob V



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



2018 Call for Entries

It starts with ONE can. To feed the hungry. To lift the spirit. To change the world. Canstruction is an international hunger-relief competition where groups compete to design and build giant structures made entirely from canned foods! 100% of monetary and food donations from Canstruction will go towards the Food Bank of the Southern Tier and CHOW's hunger-relief work in Broome County.

The Southern Tier is joined by 100 cities across North America who will hold Canstruction competitions in the coming year. Highlighting the creativity and compassion of architectural and engineering groups, these astounding structures are helping to change the world—by lifting the spirits of those in need, by raising public awareness, and most importantly, by collecting millions of pounds of food for local food banks.



Do you think you have what it takes to design and build a structure made of nothing more than canned food,

When: April 8 - 15, 2018

Where: Oakdale Mall, 601-635 Harry L. Drive, Johnson City, NY

Costs: Entry Fee is \$100 per team (non-refundable)

Teams are responsible for acquiring the canned food their structures

For more information: visit www.foodbankst.org/canstruction or contact the Canstruction Chair, Kyle Nedlik via email at BLI.Canstruction@gmail.com



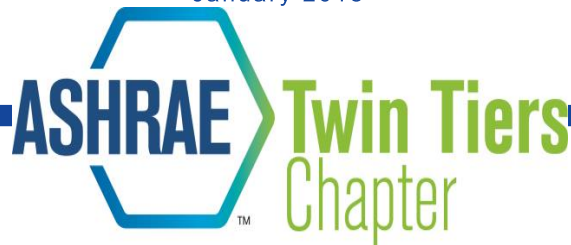
Name	_____
Address	_____
City State Zip	_____
Contact Name	_____
Phone Number	_____
Email	_____

Please complete this form and mail with your payment by **Friday, January 12, 2018** to:
Food Bank of the Southern Tier | 388 Upper Oakwood Avenue, Elmira, NY 14903 | 607.796.6061

**All proceeds
benefit hunger
relief in Broome
County:**



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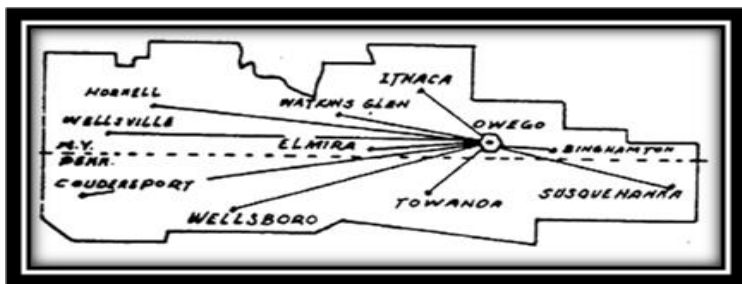
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What Were They Thinking???



What an ambitious roofer!

**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!**

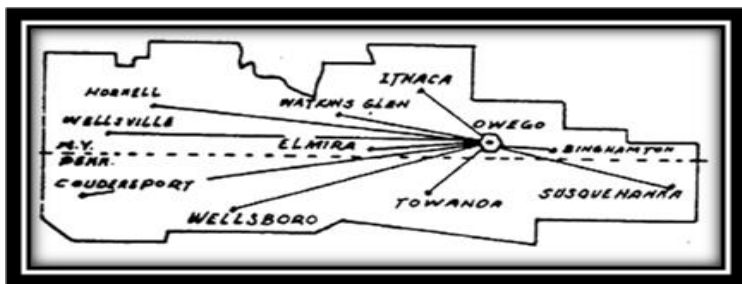
As a licensed professional in New York State, it is your professional responsibility to know the legal and ethical requirements governing the practice of your profession and to be alert to changes in those requirements. The New York State Board for Engineering and Land Surveying, in an effort to help 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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American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

INDUSTRY ARTICLE

Governor Cuomo Announces \$20.5 Million for Infrastructure and Safety Improvements at Airports Across New York

www.governor.ny.gov

By Press Office of NYS Governor Jan. 8, 2017

Governor Andrew M. Cuomo today announced \$20.5 million in funding for 29 airport projects under the Aviation Capital Grant Program. This state-funded program supports strategic investments at public-use airports across New York to ensure safety, modernize aviation-related facilities, leverage private investment, and sustain and create well-paying aeronautical-related jobs.

"New York's airports are the front door to the Empire State, and in order to build on our efforts to attract new businesses and visitors, we will invest in these regional gateways to provide the best and safest travel opportunities for everyone," **Governor Cuomo said.** "Modernizing our airports and transforming them into state-of-the-art transit hubs will keep New York competitive in today's global economy, while providing an improved, more efficient means of travel for residents and visitors for decades to come."

In March 2017, Governor Cuomo [announced](#) the availability of funding, which was included in the \$21.1 billion five-year State Transportation Plan. Projects funded under this initiative include security checkpoint enhancements; acquisition of ground service and maintenance equipment; terminal modernization and expansion; and construction of airplane hangar facilities.



The following public-use airports have received funding in each region:

Capital Region: \$2.6 million

- \$249,723 to Columbia County Airport for Demolition of Farm Structures/Obstructions.
- \$1,485,000 to Schenectady County Airport to Construct Business Aviation Complex.
- \$864,000 to South Albany Airport for Hangar Construction and Security Improvements.

Central New York: \$1.1 million

- \$1,080,000 to Oswego County Airport for Terminal Building Construction.

Finger Lakes: \$5 million

- \$1,485,000 to Canandaigua Airport to Construct General Aviation Terminal Building.
- \$662,474 to Finger Lakes Regional to Construct New Jet-A Fuel Farm.
- \$356,250 to Genesee County Airport to Purchase Ground Service Equipment.
- \$972,325 to Ledgesdale Airport for Airfield Lighting Improvements and Runway Markings.
- \$421,200 to Penn Yan-Yates County Airport for Airport Sanitary Sewer Extension.
- \$1,068,400 to Williamson-Sodus Airport to Construct 18 Unit T-Hangar.

Long Island: \$2 million

- \$995,000 to Francis S. Gabreski Airport for New Air Traffic Control Tower.
- \$960,000 to Long Island MacArthur Airport to Purchase 800 KW Diesel-Power Generator.
- \$54,722 to Brookhaven-Calabro Airport to Purchase a Crack-Sealing Machine.



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

INDUSTRY ARTICLE

Governor Cuomo Announces \$20.5 Million for Infrastructure and Safety Improvements at Airports Across New York (Cont.)

Mid-Hudson Valley: \$1.9 million

- \$1,307,646 to Orange County Airport for New Corporate Bulk Hangar.
- \$485,100 to Sullivan County International Airport to Replace Fuel Farm.
- \$70,470 to Hudson Valley Regional Airport to Purchase a Maintenance Vehicle.

Mohawk Valley: \$1.5 million

- \$27,000 to Fulton County Airport for Airport Sign Replacement Project.
- \$1,500,000 to Griffiss International Airport to Convert Hangar for Community College Aviation School.



North Country: \$3 million

- \$270,000 to Adirondack Regional Airport to Rehabilitate Town Hangar.
- \$893,700 to Floyd Bennett Memorial Airport to Construct Two New 10 Bay T-Hangars.
- \$180,000 to Massena International Airport to Purchase Fuel Truck.
- \$154,800 to Potsdam Municipal Airport to Acquire Multi-Purpose Airport Maintenance Equipment.
- \$1,500,000 to Watertown International Airport to Construct a New Hangar for Air Ambulance Services.

Southern Tier: \$500,000

- \$448,200 to Corning-Painted Post Airport to Construct Helicopter Maintenance and Storage Hangar.

Western New York: \$3 million

- \$1,500,000 to Buffalo Niagara International Airport for Security Checkpoint Expansion Project.
- \$271,800 to Chautauqua County/Jamestown Airport for Replacement of a Bulk Hangar Door.
- \$507,246 to Niagara Falls International Airport for a Security Fencing Project.
- \$257,365 to Wellsville Municipal Airport for Snow Removal Equipment Acquisition.
- \$466,620 to Chautauqua County/Dunkirk Airport to Demolish an Existing Bulk Hangar and Construct a Public Safety Hangar.

The State Department of Transportation will immediately begin to work with airport project sponsors on the delivery of the planned improvements.

"Through sustained investments in airports across New York State, Governor Cuomo is ensuring that the State's communities remain economically competitive," **New York State Department of Transportation Acting Commissioner Paul A. Karas said.** "These state investments will assist New York airports in achieving their mission, which is to further economic development."

"Governor Cuomo Announces \$20.5 Million for Infrastructure and Safety Improvements at Airports Across New York" *New York State Governor Andrew M. Cuomo*. Press Office of the New York State Governor, 8 Jan. 2018. Web. 11 Jan. 2018. <<https://>



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INDUSTRY ARTICLE

Governor Cuomo Unveils 20th Proposal of 2018 State of the State: New York's Clean Energy Jobs and Climate Agenda

www.governor.ny.gov

By Press Office of NYS Governor Jan. 2, 2017

Governor Andrew M. Cuomo today unveiled the 20th proposal of the 2018 State of the State: a comprehensive agenda to combat climate change by reducing greenhouse gas emissions and growing the clean energy economy. By further strengthening the Regional Greenhouse Gas Initiative and welcoming new state members, New York will continue its progress in slashing emissions from existing fossil fuel power plants. In addition, unprecedented commitments announced today to advance clean energy technologies, including offshore wind, solar, energy storage and energy efficiency, will spur market development and create jobs across the state.

"New Yorkers know too well the devastation caused by climate change, and in order to slow the effects of extreme weather and build our communities to be stronger and more resilient, we must make significant investments in renewable energy," **Governor Cuomo said.** "With this proposal, New York is taking bold action to fight climate change and protect our environment, while supporting and growing 21st century jobs in these cutting-edge renewable industries."

The 2018 Clean Energy Jobs and Climate Agenda will build on the progress made to date under the Governor's Reforming the Energy Vision policy, which includes the nation-leading Clean Energy Standard mandate to generate 50 percent of the state's electricity needs from renewable energy sources by 2030, as well as ambitious climate protection activities under the Environmental Protection Fund.

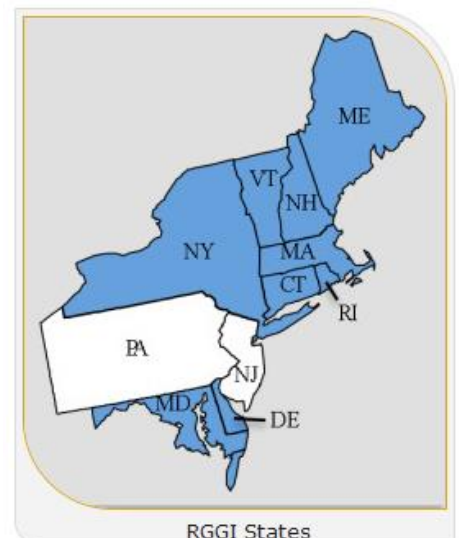
Governor Cuomo's 2018 Clean Energy Jobs and Climate Agenda includes the following:
Expand Regional Greenhouse Gas Initiative and Reduce Emissions Equitably from the Highest-Polluting, High Demand "Peaker" Power Plants

In 2013, Governor Cuomo led the nine RGGI states in reducing the cap on greenhouse gas emissions from power plants 50 percent by 2020. Since that time, RGGI has continued to exceed expectations, providing over \$2 billion in regional economic benefits and public health benefits of \$5.7 billion while reducing emissions more than required by the declining cap. In August 2017, the other RGGI states agreed to Governor Cuomo's 2017 State of the State call to reduce the cap another 30 percent by 2030. To further these efforts, Governor Cuomo will work with RGGI states and potential new partners in Virginia and New Jersey, to ensure a smooth transition to a broader, more cost-efficient greenhouse gas market that maintains the initiative's ambitious reductions in climate pollution.

Currently, RGGI only covers power plants with a capacity of 25 megawatts or greater, leaving out many smaller but highly-polluting, high demand "peaking" units, which operate intermittently during periods of high electricity demand. These polluting units are often located close to population centers that come online to meet peak electricity demand on excessively hot or cold days, and disproportionately impact low-income and minority communities that already face a multitude of environmental burdens.

Governor Cuomo will direct the Department of Environmental Conservation to:

- Undertake a rule-making in 2018 to implement the 30 percent cap reduction of carbon dioxide to avoid nearly 133 million tons of additional carbon pollution region-wide from the electric power sector announced by the RGGI states in August 2017, including revisions to strengthen RGGI by grouping together and thereby covering peaking units that collectively exceed RGGI's capacity threshold of 25 megawatts; and
- Work with the New York State Energy Research and Development Authority to engage the Environmental Justice & Just Transition Working Group convened by the Governor in 2017, to ensure that Environmental Justice communities benefit equitably from investment of RGGI auction proceeds.





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

INDUSTRY ARTICLE

Governor Cuomo Unveils 20th Proposal of 2018 State of the State: New York's Clean Energy Jobs and Climate Agenda (Cont.)

Moreover, in order to immediately reduce emissions from New York's highest-polluting power plants Governor Cuomo directs the DEC to:

- Propose complementary reforms to reduce emissions of smog-forming pollutants from peaking units; and
- Adopt regulations ending the use of coal in the state's power plants by 2020. This is something the Governor called for in his 2016 State of the State address. At the same time, Governor Cuomo created the Electric Generation Facility Cessation Mitigation Fund to address the needs of the local communities affected by any closure.

Solicit Proposals for Offshore Wind Power

In the 2017 State of the State, Governor Cuomo took the bold step of establishing a target of up to 2.4 gigawatts of offshore wind by 2030, the largest commitment to offshore wind power in U.S. history. To position New York as the leading offshore wind market in the United States and to drive competition, reduce costs and create new well-paying jobs, this year Governor Cuomo is calling for a procurement of at least 800 megawatts of offshore wind power between two solicitations to be issued in 2018 and 2019, resulting in enough clean, renewable energy to power 400,000 New York households. These solicitations will be the first in a set schedule to reach the 2030 target, will create competition among developers to build some of the largest offshore wind projects in the United States, and will ensure that the resulting jobs and economic development benefits accrue across the state.



In addition, Governor Cuomo is directing NYSERDA to invest \$15 million in clean energy workforce development and infrastructure advancement to train workers for jobs in this good-paying industry, including offshore wind construction, installation, operation, maintenance, design and associated infrastructure. To attract private investment in port infrastructure and supply chain activities, Governor Cuomo is further directing NYSERDA to work with Empire State Development and other state agencies to determine the most promising public and private offshore wind port infrastructure investments. These new actions will jumpstart project development, drive job growth and industry investments, and secure New York's status as the undisputed home for the emerging offshore wind industry in the U.S.

Increase Transmission of Clean and Renewable Energy By Investing \$200 Million to Meet Unprecedented Energy Storage Target of 1,500 Megawatts by 2025

New York faces a number of energy-related challenges including upgrading its aging energy infrastructure, which carries with it an estimated \$30 billion price tag over the next 10 years. Moreover, as renewable energy sources produce a larger share of New York's electricity, New York must also address the intermittency of clean resources like wind and solar. Without methods to store the energy and dispatch it when and where it is needed, New York will face challenges integrating and maximizing the benefits of these clean resources.

To address these challenges, create jobs in research and development, and further New York's climate and clean energy leadership, Governor Cuomo is launching an initiative to deploy 1,500 megawatts of energy storage by 2025 and employ 30,000 New Yorkers to establish New York as a home for this rapidly expanding clean tech industry. Achieving this ambitious goal will produce \$2 billion in energy value to New Yorkers by reducing the reliance on costly, dirty and inefficient energy infrastructure, while also helping to scale up the clean energy industry. A 1,500 megawatt commitment by New York represents the largest such commitment per capita by any state.

Building on the recently signed Energy Storage Deployment legislation, Governor Cuomo is directing state energy agencies and authorities to work together during 2018 to generate a pipeline of storage projects through utility procurements, advance regulatory changes in utility rates and wholesale energy markets, incorporate storage into criteria for large scale renewable procurements, and reduce regulatory barriers.



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Governor Cuomo Unveils 20th Proposal of 2018 State of the State: New York's Clean Energy Jobs and Climate Agenda (Cont.)

Invest \$200 Million from NY Green Bank to Support Energy Storage

The Governor is also proposing a commitment of at least \$200 million from NY Green Bank for storage-related investments to help drive down costs and to strategically deploy energy storage to where the grid needs it most. Finally, the Governor is directing NYSERDA to invest at least \$60 million through storage pilots and activities to reduce barriers to deploying energy storage, including permitting, customer acquisition, interconnection, and financing costs. In addition to utility procurements and regulatory changes, these investments will be critical to jumpstart the market and support robust and cost-effective project development on the way to achieving the 1,500 megawatt goal.

Create the Zero Cost Solar for All Program for 10,000 Low-Income New Yorkers

Reducing the energy burden of low-income households and ensuring their participation in the clean energy economy are central goals in Governor Cuomo's energy policies. The Governor's REV strategy aims to ensure that the economic, environmental and health benefits of clean energy are accessible to New Yorkers who are most in need. In 2016, Governor Cuomo also unveiled the Energy Affordability Policy to limit energy prices and provide direct cost relief for low-income New Yorkers, and expanded it the following year to bring the total program benefits to \$260 million.



Community solar is a REV initiative that enables customers to share in the benefits of solar power even if they live in an apartment or other building that cannot support a rooftop solar system. This initiative is one of the best options for low-income customers to access solar power and reduce their energy costs, but since community solar is relatively new and not yet widely adopted, low-income customers have yet to realize the program's full potential. To help low-income New Yorkers reap the benefits of solar power, the Governor is announcing that NYSERDA will:

- Use its purchasing power to secure community solar subscriptions for low-income customers and provide them at zero cost to deliver cost savings and clean energy to more than 10,000 low-income New Yorkers, and to contribute to helping achieve the Governor's Clean Energy Standard; and
- Work with low-income energy efficiency programs, utilities, community agencies, solar project developers, investors and other stakeholders to market the program to low-income customers and develop strategies for how the program can better serve low-income New Yorkers and help them participate in the growing clean energy economy.

Reconvene Scientific Advisory Committee on Climate Change

In June 2017, Governor Cuomo formed the U.S. Climate Alliance with the Governors of California and Washington State to ensure that New York State and other willing partners continue to meet or exceed the targets of the Paris Agreement on climate change. After announcing its withdrawal from the Paris Agreement, the federal government took another misguided step by disbanding the Federal Advisory Committee for the Sustained National Climate Assessment, a group of leading scientists and stakeholders tasked with providing recommendations to the federal government on scientific information to support state and local governments, communities, and the private sector in planning for the effects of climate change. In the absence of guidance from the Advisory Committee, decision-makers will have limited ability to know how climate change will impact their organizations and communities, and what they can do to better plan for those impacts.

Therefore, Governor Cuomo, as co-chair of the U.S. Climate Alliance and in collaboration with partners, will reconvene the Advisory Committee to develop recommendations to navigate the challenges of climate change. As a result, the Advisory Committee will continue its critical work without political interference and provide the guidance needed to adapt to a changing climate.



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Governor Cuomo Unveils 20th Proposal of 2018 State of the State: New York's Clean Energy Jobs and Climate Agenda (Cont.)

Establish New Energy Efficiency Target by Earth Day

In order to combat climate change, New Yorkers must increase the use of clean and renewable energy, but must also lower our overall energy consumption. Energy efficiency is a highly effective way to lower energy bills for New Yorkers and to meet New York State's nation-leading clean energy and environmental goals. With more than 110,000 New Yorkers employed in energy-efficiency related jobs, the industry is already a major component of New York's clean energy economy.

Building on the progress made through utility programs and cutting-edge work to reduce energy use in state facilities, Governor Cuomo launched the \$5 billion Clean Energy Fund in 2016 to support investment in energy efficient technologies. This initiative is already demonstrating significant progress across New York State, from Upstate farms and greenhouses to commercial buildings in Manhattan. These activities are expected to save New Yorkers a remarkable \$39 billion in energy costs over the next 10 years while significantly reducing greenhouse gas emissions.

However, much work remains to realize the full potential of energy efficiency for New Yorkers. Homeowners and renters often do not invest in comprehensive energy-saving upgrades due to high upfront costs or lack of knowledge about the financing and technology options that can save money over the long-term. And while significant innovation and growth have been achieved in the renewable energy industry in New York, energy efficiency has not been on the same trajectory towards greater energy savings and greenhouse gas reductions like solar and wind. Creating a more energy efficient New York will require effort across the board to attract greater investment and innovation in energy efficiency.

To address this, Governor Cuomo is directing the New York Department of Public Service and NYSERDA to:

- Engage stakeholders in the public and private sectors, and propose a comprehensive and far-reaching energy efficiency initiative by Earth Day, April 22, 2018;
- Propose a new 2025 energy efficiency target achieved through cost effective implementation strategies and innovative approaches from both utilities and the Clean Energy Fund, which will accelerate progress towards the state's ambitious climate and clean energy goals; and
- Identify opportunities by which state facilities can lead by example.

In addition, NYSERDA will propose the establishment of appliance efficiency standards, with support for implementation from the Clean Energy Fund. This strategy is proven to achieve significant energy savings and is a function recently abdicated by the federal government. As co-chair of the U.S. Climate Alliance, New York State will work with its partners in other states to help scale state-level appliance efficiency. Working through the U.S. Climate Alliance and with other partners, New York State will provide certainty to manufacturers that appliance efficiency standards must be met across the United States.



"Governor Cuomo Unveils 20th Proposal of 2018 State of the State: New York's Clean Energy Jobs and Climate Agenda" *New York State Governor Andrew M. Cuomo*. Press Office of the New York State Governor, 2 Jan. 2018. Web. 11 Jan. 2018. <<https://www.governor.ny.gov/news/governor-cuomo-unveils-20th-proposal-2018-state-state-new-yorks-clean-energy-jobs-and-climate>>.

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Sr. Mechanical Designer

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Key Responsibilities

The Sr. Mechanical Designer (Facilities Designer II) designs HVAC, fire protection, and plumbing systems, as well as generates plans and specifications for maintenance, repair and alteration projects within the Facilities Engineering Mechanical Design Section. The Sr. Mechanical Designer also estimates costs for mechanical systems designs, and organizes design and drafting efforts to deliver designs within project budgets and schedules, as well as performs design construction administration of small projects (under \$100,000 in total project costs) by attending job meetings, facilitating communication and conducting field inspections. They will also initiate vendor contacts as required to select and specify equipment.

Core Qualifications

Required

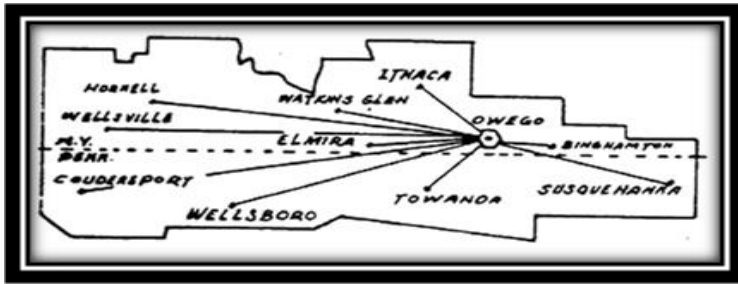
Associate's degree 2 years minimum in mechanical engineering technology, construction technology or related field and at least 5 years relevant experience in design of HVAC, plumbing, and fire protection systems, or equivalent combination of education and experience. Working knowledge of current codes and industry standards in discipline (NYS Building Codes, ASHRAE, ASME, NFPA). Technical knowledge of design and construction industries. Must be knowledgeable of building mechanical systems and construction estimating. Ability to comprehend construction drawings and specifications.

Must have experience in lab renovations and critical environments including but, not limited to cleanrooms design, walk-in industrial refrigeration coolers, and high purity material of construction selection, as well as facilities engineering experience in sprinkler design, hydraulic calculations, controls, duct and piping design. Experience with writing technical specifications, and multidiscipline drawing coordination.

Preferred

Bachelor's degree in Mechanical Engineering from an ABET-accredited program (BSME preferred). Ability to move projects to successful conclusion. Practical experience in plumbing, piping, and fire protection systems. Experience in REVIT and 3-D drafting.

For a more detailed position description and to create a profile to apply online please follow this link, <https://hr.cornell.edu/jobs/external-applicants> and get connected to Cornell recruiters.



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MECHANICAL ENGINEER

Tetra Tech is a leading provider of consulting, engineering, and technical services worldwide. Our reputation rests on the technical expertise and dedication of our employees—16,000 people working together across disciplines and time zones to provide smart, sustainable solutions for challenging projects. We are proud to be home to leading technical experts in water, environment, infrastructure, resource management, energy, and international development. Tetra Tech combines the resources of a global, multibillion dollar company with local, client-focused delivery in 400 locations around the world. We offer competitive compensation and benefits and are searching for innovative people to join our teams.

Tetra Tech A&E provides planning, design and construction phase services for a wide range of building types and clients, from K-12 and higher education facilities in New York to facilities supporting governments worldwide. We currently seek a Mechanical Engineer to work out of our Ithaca NY or Albany NY office.

Responsibilities include:

- Design of building mechanical systems (HVAC) including appropriate system concepts, calculations, energy modeling, layout, sizing, selections, specifications and coordination
- Perform site visits of existing mechanical systems for evaluation or to inspect work in progress or completed
- Review and respond to team member on project design work, RFIs, submittals, and other construction related documents and issues in a professional and timely manner
- Monitor and control project progress against scope, schedule, and budget
- Attend client meetings and assist in marketing efforts

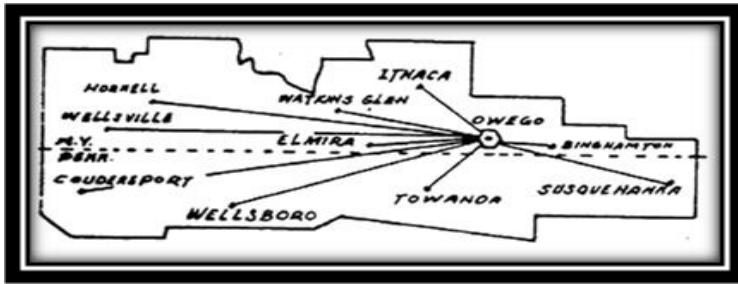
Requirements:

- Bachelor's degree in Mechanical Engineering, Mechanical Engineering Technology, or similar field with 8 years of experience designing building mechanical (HVAC) systems.
- Experience with Design of mechanical (HVAC) systems for educational facilities is desired.
- Licensed Professional Engineer (PE) or EIT and preparing to obtain professional licensure preferred.
- Proficient in AutoCAD and Revit/BIM with working knowledge of MS Office.
- Proficiency with building energy modeling concepts and software preferred.
- Knowledge of applicable codes and standards.
- Possesses and applies a broad knowledge of principles, practices and procedures to the completion of difficult assignments.
- Knowledge of and demonstrated interest in energy efficient solutions and designs.

If you are interested in this exciting opportunity apply on-line at: <http://www.tetratech.com/en/careers>

Tetra Tech is committed to creating a diverse environment and is proud to be an Equal Opportunity Employer. We invite resumes from all interested parties including women, minorities, veterans and persons with disabilities. Tetra Tech is a VEVRAA federal contractor and we request priority referral of veterans for available positions.

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TETRA TECH SENIOR MECHANICAL ENGINEER

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Tetra Tech A&E provides planning, design and construction phase services for a wide range of building types and clients, from K-12 and higher education facilities in New York to facilities supporting governments worldwide. We currently seek a Senior Mechanical Engineer to work out of our Ithaca NY, Albany NY, Farmingdale NY, or Marlborough, MA office.

Responsibilities include:

- Design of building mechanical systems (primarily HVAC) including appropriate system concepts, calculations, energy modeling, layout, sizing, selections, specifications and coordination
- Perform site visits of existing mechanical systems for evaluation or to inspect work in progress or completed
- Acts as lead engineer on projects and provides conceptual guidance to Mechanical Designers and Mechanical Engineers on wide range of projects.
- Provides consultation to professional co-workers. Mentors junior level department designers.
- Review and respond to team member on project design work, RFIs, submittals, and other construction related documents and issues in a professional and timely manner
- Monitor and control project progress against scope, schedule, and budget
- Attend client meetings and assist in marketing efforts

Requirements:

- Bachelor's degree in Mechanical Engineering, Mechanical Engineering Technology, or similar field with 15 years of experience designing building mechanical (HVAC) systems.
- Experience with design of mechanical (HVAC) systems for educational and federal facilities is desired.
- Licensed Professional Engineer (PE) in New York State, with ability to be licensed in other states as requested.
- Proficient in AutoCAD and Revit/BIM with working knowledge of MS Office.
- Proficiency with building energy modeling concepts and software preferred.
- Knowledge of applicable codes and standards.
- Possesses and applies a broad knowledge of principles, practices and procedures to the completion of difficult assignments.
- Knowledge of and demonstrated interest in energy efficient solutions and designs, and in LEED strategies and designs.

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- Coordinates and develops the layout, design, drafting, and specifications produced by architectural and engineering staff members who are part of the project team.
- Develops project cost estimates.
- Supervises technical staff and provides design guidance.
- Supervises the preparation and checks the accuracy of contract documents.
- Incorporates applicable codes, construction techniques, and sequences in various projects including all aspects of cross disciplines.
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- Conducts site observations of mechanical systems during construction operations. Performs other associated construction phase tasks.

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- In addition to HVAC system design experience; experience with Plumbing design and Fire Protection design strongly desired.
- At least 5 years design experience
- Bachelor's degree in Mechanical Engineering
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- Highly proactive and detail oriented
- LEED certification is a strong asset

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- May perform project manager duties as needed.
- Some travel to site locations or other Stantec offices may be required.

Your Capabilities and Credentials:

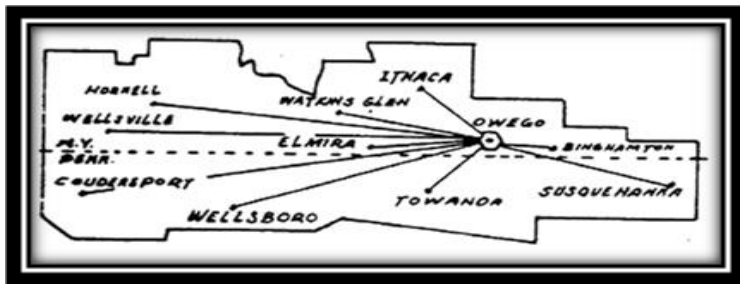
The successful candidate will possess:

- Requires a B.Sc. Mechanical Engineer
- NYS PE desired, registration in other states a plus
- 7+ years' experience required
- Must have strong Mechanical Engineering skills in Plumbing, Fire Protection, HVAC, and related mechanical systems
- Prior management experience is a plus
- Prior consulting engineering experience is required
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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).

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Comments? Suggestions?

Andrew Nice, Editor
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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.

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