April Chapter Meeting

April 21, 2015

Spring Engineering Symposium

Earn 7.5 PDH!

Theme:

“Everything is Energy and that’s all there is to it.”

To register, visit the Chapter website:
http://twintiers.ashraechapters.org
and select the “Programs” page.

Please send all newsletter comments to:
Andrew Nice, Editor
c/o Meier Supply Co.
275 Broome Corporate Parkway
Conklin, NY 13748
anice@meiersupply.com

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

A special thank you to all the Binghamton University Students that made it out to our March chapter meeting. I hope you all enjoyed the meeting and were able to glean a little more knowledge of the field of Mechanical Engineering.

I would also like to thank Binghamton University for allowing us to tour their new Center of Excellence. What a fantastic building filled with ingenuity. I’m sure this building will standout for years to come. And last but not least thank you to Professor Gilbert for guiding the Center of Excellence Tour and for the informative and most entertaining presentation. In the immortal words of SNL-Sean Connery, “You think you’re pretty smart don’t you Trebek!”

This month we’ll be holding our annual Spring Engineering Symposium at the Owego Treadway Inn. Our Vice-President Travis Fisher has done a great job putting the whole symposium together. The symposium is being held on Tuesday April 21st from 8:00am to 5:00pm. The theme this year is “Everything is Energy, and that’s all there is to it”, and is worth 7.5 PDH for the full day. Sign up now on the website!

Don’t forget to mark your calendars for our Annual Golf Tournament and Clambake on June 16th. We will be holding it at Vestal Hills this year, and it will be immediately followed by our Clambake at Mountain Top Grove!

I hope to see you all there!

Best regards,
Andrew Nice
Twin Tiers Chapter President
American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

Twin Tiers Chapter

Presidential Award of Excellence (PAOE)

<table>
<thead>
<tr>
<th></th>
<th>Membership Promotion</th>
<th>Student Activities</th>
<th>Research Promotion</th>
<th>Historical</th>
<th>Chapter Operations</th>
<th>Chapter Technology Transfer</th>
<th>Grassroots Government Activities</th>
</tr>
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<td>MIN/PAR</td>
<td>500/800</td>
<td>300/500</td>
<td>800/1050</td>
<td>100/300</td>
<td>400/1000</td>
<td>450/1050</td>
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<td>665</td>
<td>600</td>
<td>375</td>
<td>1020</td>
<td>975</td>
<td>575</td>
</tr>
</tbody>
</table>

4,795 POINTS CURRENT AS OF 4/10/2015

Chapter Committee Chairs

**Technology Transfer**
- Doug Breese
dbreese@labellapc.com
(585) 402-7090

**Government Activities**
- Petros Papathomopoulos
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**Golf & Clambake Outing**
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**Membership Promotion**
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  mmcginnis@rlkistler.com
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(607) 777-2240

**Symposium– Fall/Spring**
- Travis Fisher
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**Publicity**
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  mmcginnis@rlkistler.com
  (607) 727-3168
# Twin Tiers Chapter – Monthly Meeting Information

## 2014-2015 Meeting Dates:

<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Tech Session Topic, Tour or Meeting Info</th>
<th>Attendance</th>
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</thead>
<tbody>
<tr>
<td>16-Sep</td>
<td>Rick Allabaugh/Andy Nice</td>
<td>UMH Hilltop VRF Tour &amp; Presentation</td>
<td>28</td>
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<tr>
<td>21-Oct</td>
<td>Various / TBD</td>
<td>Fall Engineering Symposium - Daytime</td>
<td>-</td>
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<tr>
<td>21-Oct</td>
<td>Seth Weisel</td>
<td>Galaxy Brewing Tour</td>
<td>25</td>
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<tr>
<td>20-Jan</td>
<td>Art Studer / Chuck Gaylord</td>
<td>Ice Rink Tour &amp; Presentation Theme: Membership/Refrigeration/Student/YEA Night</td>
<td>23</td>
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<tr>
<td>17-Feb</td>
<td>Richard Miller / Danny Miller</td>
<td>Case study of transforming “dumb” roof top units to energy efficient machines. It is brain surgery. Theme: Research Promotion</td>
<td>36</td>
</tr>
<tr>
<td>17-Mar</td>
<td>Jason Gilbert</td>
<td>Binghamton University Tour &amp; Presentation Theme: Student/YEA Night</td>
<td>28</td>
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<tr>
<td>21-Apr</td>
<td>Multiple/TBD</td>
<td>Spring Engineering Symposium—Daytime</td>
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<tr>
<td>19-May</td>
<td>Lanny Joyce</td>
<td>Cornell University LEED Gold Weill Hall Biomedical Lab Tour &amp; Presentation</td>
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<tr>
<td>16-Jun</td>
<td>None</td>
<td>Golf Tournament</td>
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**NOTE: Speakers and topics are subject to change based on availability.**
### Twin Tiers Chapter April Meeting Details

**ASHRAE Twin Tiers Chapter**

**“Everything is Energy and that’s all there is to it.”**

**Annual Spring Symposium and Professional Development Seminar**

**Tuesday, April 21, 2015, 8:30 A.M. – 5:00 P.M.**

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

**EARN 7 Professional DEVELOPMENT HOURS!**

The ASHRAE Twin Tiers Chapter 2015 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 theme, “Everything is Energy and that’s all there is to it”, offers attendees opportunities to review some of the different examples of energy and the ways it dictates product technology.

**SCHEDULE OF EVENTS**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>8:00-8:30 A.M.</td>
<td>Registration. Owego Treadway Inn Starfire/Terrace Foyer. Includes: Coffee, Decaf, Hot Tea, Assorted Juices, Bagels, Muffins, Danish’s &amp; Fresh Fruit</td>
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<tr>
<td>8:30-10:00 A.M.</td>
<td><strong>Starfire East</strong>&lt;br&gt;“Liquid Desiccant Technology”&lt;br&gt;1.5 PDH&lt;br&gt;Andy Bernhardt, P.E., LEED AP, Advantis Systems  &lt;br&gt;<strong>Starfire West</strong>&lt;br&gt;“Balancing”&lt;br&gt;1.5 PDH&lt;br&gt;Chris Wolak, Victaulic</td>
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<tr>
<td>10:00-10:20 A.M.</td>
<td>Morning Break – Starfire/Terrace Foyer. Includes: Soda, Coffee, Decaf, &amp; Hot Tea</td>
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<td>10:20-11:50 A.M.</td>
<td><strong>Starfire East</strong>&lt;br&gt;“Energy Managing Tactics”&lt;br&gt;1.5 PDH&lt;br&gt;Shirley Jean Bergman, CEM, CMVP, PMP, Energy CAP  &lt;br&gt;<strong>Starfire West</strong>&lt;br&gt;“Hybrid Heat Pumps”&lt;br&gt;1.5 PDH&lt;br&gt;Rasul Gautreau, P.E., CGC Group</td>
</tr>
<tr>
<td>12:00-1:40 P.M.</td>
<td>Lunch &amp; Presentation Followed by the Monthly Chapter Meeting – Terrace. Presentation: “Snow and Ice Melting Systems” – 1.0 PDH Mike Gavin, REHAU</td>
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<tr>
<td>1:40-3:10 P.M.</td>
<td><strong>Starfire East</strong>&lt;br&gt;“Fire Rated Duct Penetrations”&lt;br&gt;1.5 PDH&lt;br&gt;Adam Tappan, Conquest FireSpray  &lt;br&gt;<strong>Starfire West</strong>&lt;br&gt;“Power Venting and Economizers”&lt;br&gt;1.5 PDH&lt;br&gt;Gary Hilton, Robert Hooker Co.</td>
</tr>
<tr>
<td>3:10-3:30 P.M.</td>
<td>Afternoon Break – Starfire/Terrace Foyer. Includes: Soda, Coffee, Decaf, Assorted Cookies, &amp; Hot Tea</td>
</tr>
<tr>
<td>3:30-5:00 P.M.</td>
<td><strong>Starfire East</strong>&lt;br&gt;“Grooved Pipe”&lt;br&gt;1.5 PDH&lt;br&gt;Davea Dears, Victaulic  &lt;br&gt;<strong>Starfire West</strong>&lt;br&gt;“Total Heat – Evaluating Total Heating Systems”&lt;br&gt;1.5 PDH&lt;br&gt;Matt Geise, Rupp Air Management Systems</td>
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*Please Note: The ASHRAE Twin Tiers Chapter reserves the right to change the schedule, speakers and presentations without notice.*
Twin Tiers Chapter April Meeting Details

Liquid Desiccant Technology for Greater Efficiency in Dehumidification & Cooling

Andy Bernard, P.E., LEED AP

Andy will examine humidity removal as an increasingly critical component of an HVAC system's total load and understand how liquid desiccant technology affects it. He will also discuss the air quality benefits and their potential application in real life situations in various applications. Andy will also explain:

- Recognize standard approaches to removing humidity, addressing benefits and limitations of each system
- Gain understanding of liquid desiccant technology: how it works, energy savings capabilities and applications that most benefit from this approach
- How the evolving sensible heat ratio (SHR) removal as portion of total load has pushed humidity control to the forefront of air treatment challenges

10 Tactics of Successful Energy Managers

Shirley Jean Bergman, CEM, CMAP, PMAP

This presentation reviews the 10 most important tactics energy managers should be using as guidelines for monitoring energy usage and saving their organization energy.

Energy Efficient Hydronic Balancing

Chris Walk

This presentation will briefly cover the basics of hydronic balancing and why it is used. We will then dive deep into energy efficient balancing, why it is important now and will be even more important in the future. We will cover the different applications for pressure independent balancing and why it can save energy and improve system performance.

Grooved Mechanical Piping System Solutions

David Dees

This presentation will briefly cover the basics of grooved piping mechanical joint systems. Topics covered will include reviewing joint anatomy and functionality, system characteristics, and benefits. A growing and associated quality control protocols, system capabilities and design offerings that address thermal, vibration, and seismic.

Total Heat System

Matt Geise

Presentation covers our Total Heat System. It is designed to give a general overview of our approach to space heating. We will also cover industry standards and design hits we see in the marketplace today.

Power Venting and Economizers

Gary Hilton

This presentation gives an overview of exhaust draft (natural) venting, and combustion air requirements for fuel burning equipment. The benefits of using mechanical draft systems along with the dangers of natural draft systems. Mechanical draft system options and control approaches will be discussed. This presentation will also teach the benefits and energy savings of economizers for use with mechanical draft systems.

Gary Hilton - Has been a member of ASHRAE since 1991. Gary has attended many industrial schools and has worked in the HVAC industry since 1986. Gary is a Gradated of local Vocational High School.
Fire Rated Duct Solutions

Adam Tapken

Fire rated duct has been available in the industry for many years and are very commonly designed, installed and approved when incorrectly applied. This course is intended to review the basics types of fire rated duct, common applications, Type A and Type B fire rated duct configurations and basic reviews that can be conducted to assure code compliance. The course will also introduce attendees to the Flamebor fire rated duct product.

Adam Tapken - Is the Region VP of Sales for Conquest FireSpray, he has a BS in Mechanical Engineering and is a registered Fire Protection engineer with 20 plus years of industry experience. That experience includes roles in engineering, design, estimating, installation, commissioning, litigation support, sales and management. In his current role as Region VP of Sales, Adam is responsible for introducing and training the local jurisdictions, consulting engineers and contracting communities on the Flamebor fire rated enclosure system.

Hybrid Heat Pump Systems: Energy Efficient Comfort Solutions

Raoul Gmitroc, P.E.

The objective of this course is to study the operation of the Hybrid Water Source Heat Pump System that delivers more benefits than traditional Water Source Heat Pump systems. This presentation will discuss the following benefits:

- Less Electrical consumption (40% to 60% less)
- Lower heating costs (40% to 60% lower)
- Lower sound levels (no compressor noise in heating)
- More LEED contribution
- Less maintenance
- Lower installation costs

Raoul Gmitroc, P.E. - Mr. Gmitroc is the Director of Business Development for the CGC Group. He is a graduate of the University of New Brunswick in 1994. Raoul joined Trane in 1998 and attended their 6 months HVAC training program in LaCrosse Wisconsin. Upon graduating he was assigned to the Toronto District office and spent 16 years in the Southern Ontario construction market. Held several positions during his years at Trane including Design Build and Global Accounts Department where he was involved with projects in the US, Europe, Asia and South America. In 2004 pursued challenges within the HVAC energy efficiency field and is now the Director of Business Development for the CGC Group. Has conducted over 300 presentations throughout North America to Engineering and Architectural firms demonstrating the energy efficiencies of the CGC Building Hybrid System.
Twin Tiers Chapter April Meeting Details

Everything is Energy and that’s all there is to it – Tuesday, April 21, 2015
ASHRAE Twin Tiers Chapter Annual Spring Symposium and Professional Development Seminar

Professional Development Hours (PDH) towards the New York State Professional Engineering continuing education requirement will be available to attendees for an additional $25 fee.

EARLY PRE-PAID REGISTRATION DEADLINE: FRIDAY, APRIL 3, 2015
Send Pre-Paid Registration by Mail or Pay on-line at www.ashraetwintierschapter.org
Symposium Registration Includes Morning Refreshments, Buffet Lunch and Afternoon Refreshments

PLEASE REGISTER EARLY!! – SPACE MAY BE LIMITED!
Presentations are free to all students, $15 for student lunch.

ASHRAE or NYSSPE Members
$75 with pre-paid registration by April 3, 2015
$100 at the door or after April 3, 2015

Non-ASHRAE Members
$100 with paid pre-registration by April 3, 2015
$125 at the door or after April 3, 2015

<table>
<thead>
<tr>
<th>Name</th>
<th>ASHRAE Member – Early pre-paid Registration</th>
<th>$75</th>
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<td>Company/Affiliation</td>
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<td>Address</td>
<td>ASHRAE Member – After April 3, 2015</td>
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<tr>
<td>City/State/Zip</td>
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<td>Preferred Email</td>
<td>Please sign me up for PDH credit (max # # PDH)</td>
<td>$25</td>
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<td></td>
<td>Student Attendance</td>
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<td></td>
<td>Student Attendance with Lunch</td>
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Pre-paid registration must be postmarked by Friday, April 3, 2015 to receive the discount. Pay by credit card using PayPal (no account required) at our chapter website twintiers.ashraechapters.org or mail payment and registration to the following address. Make checks payable to "ASHRAE Twin Tiers Chapter", 2015 Spring Symposium, PO Box 6706, Ithaca, New York 14851-6706. Inquiries: Travis Fisher (607-972-1342)

Hotel Reservations:
Please call the Owego Treadway Inn at (607)-687-4500 and identify yourself as part of the ASHRAE Twin Tiers 2015 Spring Symposium when making reservations.

Driving Directions: (1100 State Rte 17C, Owego, New York)
From the South (Binghamton): Take Route 17 west to exit 65. Turn right at stop sign. Bear left at fork in the road towards Route 17C west. At traffic light, turn right onto Route 17C west. Owego Treadway Inn and Suites is on the left.

From the Northeast (Syracuse): Take Route 81 south to Route 17 west. Then follow above directions.

From the North (Ithaca): Take Route 96 south to Owego, New York. Take Route 17C east for approximately 2 miles. Owego Treadway Inn and Suites is on the right.

From the Northwest (Buffalo / Rochester): Take Route 390 east to Route 17C east to exit 65. Turn right at the stop sign. Bear left at the fork in the road toward Route 17C west. At the traffic light, turn right onto Route 17C. Owego Treadway Inn and Suites is on the left.

From the East (Albany): Take Route 88 west to Binghamton to Route 17 west and then follow the directions from Binghamton (above).
Twin Tiers Chapter– March BOG Meeting Minutes

Board of Governors Meeting Minutes

Date: Tuesday 3/17/2015 @ 4:00
Location: Binghamton University Center of Excellence Vestal, NY

The meeting was called to order at: **4:04 p.m. by Andy Nice**

1. Call to Order and Attendance: Andy Nice, Doug Breese, Jason Gilbert, Mike McGinnis, Jacob Schatz

2. General Announcements – Andy Nice
   a) October Meeting Minute Approval: Motion By: Mike McGinnis  
      Second By: Doug Breese

3. Treasurer’s Report - Petros Papathomopoulos
   - All Accounts are in good standing.

4. PAOE Responsibility – Andy Nice
   Membership Promotion (510/500/800) Mike McGinnis
   No new updates.
   
   Student Activities (665/300/500) Jason Gilbert
   No new updates.
   
   Research Promotion (345/800/1050) Matt Hawley (Not Present)
   To start Donor Call Sheet
   
   History (375/100/300) Rick Sanguinito (Not Present)
   No new updates.
   
   Chapter Operations (915/400/1000) Andy Nice
   Need to find new members for audit committee.
   Rick Sanguinito & Jason Gilbert volunteered
   
   Chapter Technology Transfer (550/450/1050) Doug Breese
   May tour is booked for Cornell.
   
   Grassroots Government Activities (475/500/650) Petros Papathomopoulos (Not Present)
   No new updates.
5. Committee Reports - Andy Nice

Meeting Reception: Petros Papathomopoulos (Not Present)

Golf & Clambake: Jason Gilbert / Mike McGinnis
   Would like to grow the clam bake portion
   Matt still looking to Mountain Top Pricing
   Mike & possibly Matt to take over next year
   Confirm where to give out door prizes

Refrigeration: Tim Fabian (Not Present)
   No New Updates

Webmaster: Mike Colwell (Not Present)
   No New Updates

Newsletter: Andy Nice
   If you would like information published in the newsletter please send Andy your information
   3 Mondays before the chapter meetings

YEA: Mike McGinnis/ Travis Fisher
   Going to have a bowling night 4/28

Publicity: Mike McGinnis
   No New Updates

Symposium: Travis Fisher (Not Present)
   All presentations have been submitted for PDH approval.

6. OLD BUSINESS
   1. PayPal: Look into changing account out of Shirley Jean’s Name & into a Non-Profit Account.
   2. Tompkins Charity Gift Fund: Travis to send out Contact Information
      Utilize their forms for funds distribution, Travis to ask Tompkins for the original opening documents.
   3. Member Shirts: Agreed on Charcoal Color Golf Shirts
      Andy to verify shirt lead time
      Compile a list of meeting attendance

   4. Scholarship: (Revisit at the May Meeting)
      The HO Ward account is above $25k- looking into giving out scholarships
      Ask Jason the procedure needed to broadcast scholarship
      Can the scholarship apply to BOCES students
      Look into adding a scholarship tab on the website

7. NEW BUSINESS
   Mike McGinnis to fill open secretary position for the 2015/2016 year!

Meeting adjourned motion by: Mike McGinnis
   Second by: Doug Breese
   The meeting was adjourned at: 4:55 p.m.
YEA Message

YEA: Young Engineers in ASHRAE

Travis Fisher & Mike McGinnis

The first YEA event of the New Year will be a tour of the J&K Pipe Shop followed by Bowling at Laural Bowl. The exact date is TBD. We will have additional information shortly. If anyone has additional events or activities that they would like to see, please contract Travis or Mike. Thanks.

Travis Fisher & Mike McGinnis
Twin Tiers Membership Committee
tf222@cornell.edu, mmcginnis@rlkistler.com

CURRENT LOCAL MEMBERS:

<table>
<thead>
<tr>
<th>Evan Hallas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alexandre P. Lovallo</td>
</tr>
<tr>
<td>Bryan D. Simpson</td>
</tr>
<tr>
<td>Saurabh K. Shrivastava, PhD</td>
</tr>
<tr>
<td>Timothy J. Envid</td>
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<tr>
<td>Christopher M. Shumeyko</td>
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<tr>
<td>Andrew D. Nice</td>
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<tr>
<td>Michael T. McGinnis</td>
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<tr>
<td>Joseph Parisella</td>
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<td>Travis Fisher</td>
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<td>Jacob A. Schatz</td>
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<tr>
<td>Stephen L. J Wage</td>
</tr>
<tr>
<td>Devin Shapley</td>
</tr>
<tr>
<td>Timothy Fabian</td>
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<tr>
<td>George J. Slavik III</td>
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<td>Richard Lance</td>
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The primary objective for the YEA Committee of Members Council is to enhance our member benefits for young professional ASHRAE members by identifying activities and services focused on their needs.

Young Engineers Event:

We had an awesome time at the driving range, mini-golf, then drinks and wings at a local pub. We learned 2 things; the older YEA members had no chance at out eating the new YEA members, and we should all stick to engineering!

Thanks for the great time! Keep an eye out for future events.
What Were They Thinking???

“Is the guy on the left tickling the guy in the striped shirt?”

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. ***
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) 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
FREE ASHRAE WEBCAST

New Tomorrows for Today’s Buildings: Existing Building Commissioning

April 23, 2015 | 1–4 pm EDT

April 23, 2015
1:00pm - 4:00 pm EDT

This FREE webcast will feature industry experts who will define the benefits of existing building commissioning for the environment, occupants, operations staff, and overall ownership costs. Viewers will be able to recognize the varied scopes of commissioning, when to apply comprehensive versus focused commissioning, and best practices in existing building commissioning specifications & contracting.

Three (3) Professional Development Hours (PDHs) may be awarded to participants who complete the Participant Reaction Form online by May 8, 2015. The webcast program has been approved for three (3) Learning Units (LUs) by the American Institute of Architects (AIA), as well as three (3) Continuing Education Hours by GBCI. The state of New York also recognizes AIA course approval.

Visit www.ashrae.org/Webcast for additional information about the program, sponsorships, continuing education credits, speakers, and registration.
American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

**TRAINING**

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**New Publications from ASHRAE**

ASHRAE, a leader in building information technology, develops publications that impact every facet of the environment, both indoors and out.

**Data Center Design and Operation – ASHRAE Datacom Series CD 4th Ed.**

This CD-ROM presents the full text of all eleven ASHRAE Datacom Series publications and Standard 127-2012 in fully searchable and printable PDF format. Authored by ASHRAE Technical Committee 9.9, the Datacom Series provides comprehensive treatment of data center cooling, energy efficiency, and related subjects.

$289 ($246 ASHRAE Member) / CD / 2014


The second edition of HVAC Design Manual for Hospitals and Clinics provides in-depth design recommendations based on best practices from consulting and hospital engineers, with a focus on presenting what’s different about healthcare HVAC systems.

$129 ($109 ASHRAE Member) / 312 pages / 2013

Visit [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) to learn more about these and other outstanding ASHRAE publications!
This full day design-focused workshop examines best practices for combining modern, high efficiency wood-fueled boilers with hydronic distribution systems. It covers the operating characteristics of wood-gasification boilers, pellet-fired boilers, and the latest hydronic heating technology that complements these high efficiency heat sources. The hydronic topics discussed include low temperature heat emitters, high efficiency circulators, modern control techniques, and optimal use of thermal storage. The workshop culminates with several examples of how to combine these heat sources and distribution techniques into stable, efficient, and reliable systems.

If you plan to be involved in designing or installing high efficiency wood-based biomass heating systems, this workshop will present a wide range of design details that will help optimize the performance of your systems deliver.

This workshop is required for installers who want to participate in NYSEIDA’s Renewable Heat NY program. This program currently has $20 million allocated for promoting the use of high efficiency / low emission biomass boilers within New York State, in both residential and commercial applications. Additional information on the Renewable Heat NY program is available at http://www.nysередa.ny.gov/renewableheating.

This workshop is approved for 7 AIA and 3.5 HPI hour credits. AIA learning hours can be used to meet Professional Development Hour (PDH) requirements for NYS licensed engineers.

**Here is the current 2015 Training Schedule:**

**Thursday, February 19, 2015**
8:00 AM - 5:00 PM
Burgundy Basin
1361 Marsh Road
Pittsford, New York 14534

**Wednesday, April 8, 2015**
8:00 AM - 5:00 PM
Holiday Inn Downtown Binghamton
2-8 Hawley Street
Binghamton, New York 13902

**Wednesday, May 20, 2015**
8:00 AM - 5:00 PM
Clinton Community College
136 Clinton Point Drive
Plattsburgh, NY 12901

**Tuesday, June 16, 2015**
8:00 AM - 5:00 PM
SUNY College of Environmental Science
1 Forestry Drive
Gateway Center
Syracuse, NY 13210-2785

Course enrollment fee: $149* (which includes lunch, breaks, and PDF file of full presentation) "Groups of 3 or more attendees from same company: $126.65/each"

For more information contact Meeting Planner, Heather Courtney at heather@meetingie.com or (518) 852-0740

Instructor Bio:
John Siegenthaler, P.E., is a mechanical engineering graduate of Rensselaer Polytechnic Institute, a licensed professional engineer, and Professor Emeritus of Engineering Technology at Mohawk Valley Community College. “Siggy” has over 35 years of experience in designing modern hydronic heating systems, including systems using high efficiency biomass boilers. John is principal of Appropriate Designs - a consulting engineering firm in Holland Patent, NY, and author of the textbook - Modern Hydronic Heating.
EVENTS

Join us at ASHRAE’s 2015 Annual Conference
June 27–July 1 | Atlanta, Georgia | www.ashrae.org/atlanta

Join ASHRAE in its hometown of Atlanta! Take advantage of the opportunity to discuss and examine the latest topics in the building industry, such as high performing buildings and modeling, through the technical program; participate in technical tours; attend ASHRAE Learning Institute courses; sit for an ASHRAE certification exam; and earn professional development credits.

Conference Technical Program—includes the third annual Research Summit, which brings together researchers to present and discuss the latest research. Tracks focus on the design, construction and operation of high performance buildings, specifically advanced design guidance, modeling, operation and optimization, and indoor air quality. Laboratories, refrigeration, fundamentals, applications, systems and equipment round out the program.

Networking—share ideas and learn from fellow members from your hometown and around the world.

ASHRAE Learning Institute—choose from two full-day professional development seminars and seven half-day short courses to stay current on new HVAC&R technologies.

ASHRAE Certification—to gain a competitive edge, apply by June 9 to sit for an ASHRAE Certification exam.

Why You Should Join ASHRAE in Atlanta…

Gain personal and career excellence through peer contact, exchange of technical information and continuing education. Share ideas with colleagues from around the world. Find out the latest, and future, activity in your technical interest area by participating in technical committee meetings.

ASHRAE Conference technical tours give you a first-hand look at technology developed by members to further the industry. Tours include Southface Eco Office, Ponce City Market, ASHRAE Headquarters, Georgia Institute of Technology and the Fox Theatre.

187 Professional Development Hours Available PDHs recognized by most U.S. states, AIA LUs and LEED®AP credits are available through ASHRAE Learning Institute courses and Technical Program sessions.
New York State Renewable Energy

http://www.dec.ny.gov/

Renewable resources -- wind, water power, solar, geothermal and biomass - already provide nearly 11 percent of the energy that New Yorkers use for transportation, space heating, industrial processes and electric power, according to NYSERDA and the federal Department of Energy (offsite links at right).

Even more important for the state's energy future, renewables have the potential to meet as much as 40 percent of energy needs by 2030.

Substituting renewable energy for fossil fuels can mean crucial benefits for New Yorkers:

- **Significantly lower pollution**: With life cycle greenhouse gas (GHG) emissions only a fraction of those from fossil fuels, renewable energy is essential to stabilize atmospheric GHG levels worldwide. Locally, less air pollution from fossil fuel combustion will improve public health.

- **Accessible, affordable energy**: Renewable energy can help to reduce net retail electricity prices and fuel price volatility, and can bring downward pressure on wholesale market electricity prices by replacing power from more expensive generation units.

- **Energy "insurance"**: Renewable technologies can help balance the electric grid (think solar electricity on hot, sunny days). Distributed renewable power generation and "microgrids" (clusters of buildings that share a local electric power generation or energy storage device capable of disconnecting from the utility grid) can provide resiliency during natural disasters.

- **Economic prosperity**: Because almost all the renewable energy used in New York is generated in-state while most fossil fuel energy is imported, local economies keep more of the dollars spent for renewable energy. Stable, well-paid jobs in grid-scale renewables can help sustain local economies. Growing markets for renewable technologies play to New York's technical, industrial, commercial and financial strengths.

### A New Energy Vision

Deploying renewable energy requires technology upgrades and careful coordination.

An upgraded electric power system, for instance, can accommodate greater variability in outputs from renewable sources and maximize the benefit of renewable power generated by businesses, institutions and consumers. Markets and management processes can be harnessed to smooth fluctuations in demand and keep prices stable. Governor Cuomo's Reforming the Energy Vision (REV) initiative is developing approaches like these to keep New York's energy flowing as sources, supplies and capabilities change.
INDUSTRY ARTICLES

New York State Renewable Energy (Cont.)

Renewable energy also brings significant economic opportunities. In particular, the project of integrating renewable energy resources into existing energy supplies and end use sectors is expected to lead to important new products and systems. Information from a smart grid would help consumers save money by intelligently controlling their own power use. Paired with a smart grid, renewables have virtually untapped potential to deliver clean energy that meets the needs of growing populations and economies.

Today's Renewable Energy Picture in New York

In New York, electric power generation is the largest beneficiary from renewable energy - the 2009 State Energy Plan records that approximately 60 percent of New York's 2007 renewable resource use was in the electric generation sector, and the remaining 40 percent came from ethanol (18 percent) and biomass (22 percent, largely wood used by the residential sector).

The Energy Plan reports that approximately 16.8 percent of the state's total electricity generation came from renewable sources in 2007. Since that time, New York has seen significant gains in wind generation and modest growing adoption of solar photovoltaic electricity and of solar thermal and geothermal technologies for space heat and hot water in homes and other buildings.

Renewable Energy Incentives

State government offers grants and loans to help New Yorkers adopt renewable energy technologies or develop renewable energy businesses. The NYS Energy Research and Development Authority offers renewable energy incentives and opportunities for individuals, businesses and institutions. (See NYSERDA link at right.)

NY Sun

The NY Sun Act provides administrative flexibility to the New York State Energy Research and Development Authority (NYSERDA) and other New York State energy agencies and authorities to design the most cost-effective programs and to respond to changing market conditions.

Executive Order 111

EO 111 sets forth an energy purchasing goal to meet 20 percent of the annual electricity requirement of buildings occupied by state agencies through renewable technologies.
New York's Renewable Energy Industry

New York's clean energy leadership is underscored by its growing renewable energy industry. When the 2009 State Energy Plan was compiled, more than 50 companies in the state manufactured renewable energy technologies or related products; more than 90 New York companies were certified to install solar-photovoltaic systems, and several corn-based and advanced cellulosic ethanol plants and numerous ethanol and biodiesel distributors and retailers were located in the state.

Since the assessment was published, battery storage technology research has been initiated in New York and the General Electric Company has dedicated its Renewable Energy Global Headquarters here. The 2013 State Energy Plan will include an updated description of renewable energy research and manufacturing in New York.

For a report examining the implications of renewable energy for rural communities and economies, see Transitioning to Renewable Energy: Development Opportunities and Concerns for Rural America, available from Cornell Cooperative Extension Community and Regional Development Institute (CARDI)
http://cce.cornell.edu/EnergyClimateChange/Pages/RenewableEnergyResources.aspx

Twin Tiers Chapter– Employment Opportunities

If your company has any Employment Opportunities that you would like to advertise in the Newsletter please send to ASHRAE

Outside Sales Engineer

Outside Sales Engineer Wanted – H&V Equipment Sales, Inc.

H&V Equipment Sales, Inc. a manufactures representative for applied HVAC equipment is seeking a motivated salesperson to help expand its market presence in Western and Central NY.

Responsibilities will be working with local mechanical contractors in the plan/spec and design/build markets, providing quotations for equipment, generating submittals and sales orders.

Candidates should poses a thorough knowledge of Mechanical HVAC systems, have good communication , sales and computer skills, and be willing to travel within the sales territory.

Other skills considered favorable to the applicant are actual HVAC field installation, service, HVAC design experience and/or HVAC sales experience.

Please email resume to Thomas Snyder at tsnyder@hvgroup.us

H&V Equipment Sales, Inc. is a division of H&V Group.
Delta Engineers, Architects, & Land Surveyors, P.C., a growing upstate NY design firm, is currently seeking a Mechanical Engineer in our Endwell, NY office. Experience in HVAC, Plumbing and Fire Protection is highly preferred.

Primary Duties Include:

- Using methods recommended by senior project team members, perform work which involves conventional and/or complex types of plans, investigations, surveys, structures, or equipment
- Is expected to solve engineering problems using thermodynamics, fluid mechanics, and heat transfer to design water, waste water, hydronic, and gaseous piping and ductwork. Design and selection of HVAC equipment associated with the building environment.
- Prepare, or assist in the preparation of, engineering documents, details, schedules or reports as assigned
- Attend and/or lead client meetings/presentations – daytime or evenings
- Communicate with client representatives, contractors, suppliers, etc.
- Serve and/or lead field inspection teams to obtain and document existing conditions using field notes, sketches, and photography
- Develop quantity take offs and construction cost estimates
- Develop project specifications and bidding documents
- Participate and/or lead site visits/inspections/documentation during construction

The preferred candidate should have a minimum 2 year degree with at least 5 years relevant experience, or 4 year degree with at least 2 years of relevant experience. Compensation for this position depends on experience. This position provides a competitive benefits package.

Delta Engineers, Architects, & Land Surveyors, PC is an Equal Opportunity Employer of Protected Veterans and Individuals with Disabilities.

To apply, visit our website career page at: http://deltaengineers.com/current_careers.php
ASSISTANT ELECTRICAL ENGINEER

Delta Engineers, Architects, & Land Surveyors, P.C., a growing upstate NY design firm is currently seeking an Assistant Electrical Engineer in our Endwell, NY office.

Primary Duties Include:
- Using methods recommended by senior project team members, perform work which involves conventional types of electrical plans, field investigations, and design.
- Is expected to try to solve engineering problems using experience, judgment and education, but is expected to ask for assistance when required.
- Be proficient in the use of computer applications including word processing, spreadsheets, Revit, and CADD. Become proficient in Group design software(s).
- Prepare, or assist in the preparation of, engineering documents, details, schedules or reports as assigned.
- Attend client meetings/presentations – daytime or evenings.
- Communicate with client representatives, contractors, suppliers, etc.
- Serve on field inspection teams to obtain and document existing conditions using field notes, sketches, and photography.
- Develop quantity take offs and construction cost estimates.
- Participate in site visits/inspections/documentation during construction.

The preferred candidate should have at least an Associate’s degree in Electrical Engineering. Compensation for this position depends on experience. This position provides a competitive benefits package.

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DELTA
ENGINEERS, ARCHITECTS, & LAND SURVEYORS

PROJECT ENGINEER – ELECTRICAL

Delta Engineers, Architects, & Land Surveyors, P.C., a growing upstate NY design firm, is currently seeking a Electrical Project Engineer in our Endwell, NY office. Project Engineers work with the Project Manager to develop design solutions of a specific discipline which are incorporated into contract documents by the design team. While these positions are primarily technical, assistance with some project management duties is likely.

Primary Duties Include:

- Assist the Project Manager in developing design parameters, scopes of service and person-hour estimates during the proposal stage
- Assign individual work tasks and provide guidance to subordinate team members of that design discipline. Discuss the desired expectations of the delegated work including the amount of time estimated to complete the work
- Responsible for the quality control of work products (e.g., reports, studies, drawings, letters, calculations, memos, etc.)
- Responsible for adherence to applicable codes
- Responsible for the preparation of technical specifications
- Responsible for the processing of shop drawings and submittals
- Monitor performance of project team members and provide feedback to the Project Manager.
- Attend and/or lead client meetings/presentations – daytime or evenings
- Communicate with client representatives, contractors, suppliers, etc.
- Participate and or lead site visits/inspections/documentation during construction

The preferred candidate should have an Associate’s degree with a minimum of 7 years experience or a Bachelor’s degree with a minimum of 4 years relevant experience; a PE License is preferred. Compensation for this position depends on experience. This position provides a competitive benefits package.

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To apply, visit our website career page at: http://deltaengineers.com/current_careers.php
Twin Tiers Chapter—Employment Opportunities

PROJECT ENGINEER - STRUCTURAL

Delta Engineers, Architects, & Land Surveyors, P.C., a growing upstate NY design firm is currently seeking a Structural Project Engineer in our Endwell, NY office. Project Engineers work with the Project Manager to develop design solutions of a specific discipline which are incorporated into contract documents by the design team. While these positions are primarily technical, assistance with some project management duties is likely.

Primary Duties Include:

- Assist the Project Manager in developing design parameters, scopes of service and person-hour estimates during the proposal stage
- Assign individual work tasks and provide guidance to subordinate team members of that design discipline. Discuss the desired expectations of the delegated work including the amount of time estimated to complete the work
- Responsible for the quality control of work products (e.g., reports, studies, drawings, letters, calculations, memos, etc.)
- Responsible for adherence to applicable codes
- Responsible for the preparation of technical specifications
- Responsible for the processing of shop drawings and submittals
- Monitor performance of project team members and provide feedback to the Project Manager.
- Attend and/or lead client meetings/presentations – daytime or evenings
- Communicate with client representatives, contractors, suppliers, etc.
- Participate and or lead site visits/inspections/documentation during construction

The preferred candidate should have a BS degree with a minimum of 8-10 years relevant experience; a PE License is required. Compensation for this position depends on experience. This position provides a competitive benefits package.

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To apply, visit our website career page at: http://deltaengineers.com/current_careers.php
Delta Engineers, Architects, & Land Surveyors, P.C., a growing upstate NY design firm, is currently seeking a Project Architect in our Endwell, NY office. This person must be a leader who gets things done. The Project Architect works with the Project Manager to develop design solutions which are incorporated into contract documents by the design team. While these positions are primarily technical, assistance with some project management duties is likely.

Primary Duties Include:

- Assist the Project Manager in developing design parameters, scopes of service and person-hour estimates during the proposal stage
- Assign individual work tasks and provide guidance to subordinate team members of that design discipline. Discuss the desired expectations of the delegated work including the amount of time estimated to complete the work
- Responsible for the quality control of work products (e.g., reports, studies, drawings, letters, calculations, memos, etc.) for the specific discipline
- Responsible for adherence to applicable codes
- Responsible for the preparation of technical specifications
- Responsible for the processing of shop drawings and submittals
- Considers alternate designs and value engineering
- Responsible for meeting scheduled deadlines
- Monitor performance of project team members and provide feedback to the Project Manager. Discuss potential corrective action with the Project Manager as required
- Attend and/or lead client meetings/presentations – daytime or evenings
- Communicate with client representatives, contractors, suppliers, etc.
- Participate and or lead site visits/inspections/documentation during construction

The preferred candidate should have a BS degree with a minimum of 8-10 years relevant experience. An RA is required and candidate must have experience as a Lead Project Architect. Compensation for this position depends on experience. This position provides a competitive benefits package.

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ADVERTISE your business card:

- Current business card adds will expire at the end of this year, December 31, 2015.

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- Email a copy of your business card to anice@meiersupply.com.

  From Web site please visit: [http://twintiers.ashraechapters.org](http://twintiers.ashraechapters.org)

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

### Business Card Advertising 2015

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 2015. 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 2015 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
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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 promote a sustainable world”