February Meeting
Tuesday February 18, 2020
Joint Meeting with NYSSPE

PRESENTATION:
“The Origins of the Lithium-Ion Battery, the Nobel experience and the potential impact of Energy Storage.”

M. Stanley Whittingham
Professor of Chemistry Binghamton University
2019 Nobel Prize Laureate in Chemistry

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
Corner

Twin Tiers Chapter Members,

First off, thank you to all of our active committed members who continue to attend our monthly meetings, and who have given so generously to our recent Research Promotion initiatives and fundraisers. Without your engagement and generosity, our Chapter would not be able to have the impact that we are able to have in our industry locally, and so we very much appreciate it. Our January Meeting featured a tour of the SUNY Broome Advanced Manufacturing Center and an overview of the programs offered there, and a dinner presentation / overview on the ground source heat pump systems implemented in the project. Thank you to SUNY Broome for giving us the opportunity to tour this newly renovated building, and thank you to Michael Martin and McFarland Johnson for sharing your insights and discussing the challenges faced during the duration of the project.

Our February Meeting will be a joint meeting with the NYSSPE Broome Chapter, at the 2020 Engineers Week Dinner held at the Holiday Inn Binghamton on Tuesday, February 18th. The Engineers Week Dinner is an event put on annually by Binghamton University and NYSSPE. The event will feature poster presentations by participating organizations, networking opportunities, an award recipient recognition ceremony, and a keynote presentation by Dr. M. Stanley Whittingham, Distinguished Professor of Chemistry and Material Science at Binghamton University. Dr. Whittingham was awarded the Nobel Prize in Chemistry in 2019 for his research leading to the development of the lithium-ion battery. His presentation at the event will include a segment on the origins of the lithium-ion battery, the Nobel experience, and the potential impact of energy storage on the industry. Please check out our “Program” page on our website for more details, and for information on how you can register for this exciting upcoming event.

With spring quickly approaching (hopefully!), I would like to send out a couple of reminders to the chapter. First off, please consider purchasing an ASHRAE golf polo to help support our Chapter’s Research Promotion initiatives. This year’s polos will be “blueberry” blue. Also, for those of you who know students who are potentially interested in pursuing a career in the HVAC & R industry, please consider having them apply for one of our HO Ward scholarships using the application on our “Committees > Scholarship” page on the Chapter website. The deadline for scholarship applications in February 15th. Lastly, our Spring Symposium will be on April 21st at the Holiday Inn in downtown Binghamton. Thank you to Adam Keller who has been organizing this event and booking the speakers.

Thank you,
Kyle Nedlik
ASHRAE Twin Tiers 2019-2020 Chapter President
### Presidential Award of Excellence (PAOE)

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<th>Chapter Operations</th>
<th>Chapter Technology Transfer</th>
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<th>Grassroots Government Activities</th>
<th>Historical</th>
<th>Membership Promotion</th>
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<th>Student Activities</th>
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</tbody>
</table>

POINTS CURRENT AS OF 2/10/2020

### Chapter Committee Chairs

**Technology Transfer**
Devin Shapley  
(607) 723-9421  
Email Me!

**Government Activities**
Adam Keller  
(315) 484-9526  
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**
Kyle Nedlik  
(607) 321-6100  
Email Me!

**Meeting Reception**
Matthew Lloyd  
607) 239-3956  
Email Me!

**H.O. Ward Scholarship**
Richard Sanguinito  
(607) 231-6605  
Email Me!

**Research Promotion**
Glenn Roberts  
(315)234-1527  
Email Me!

**Student Activities**
Jason Gilbert  
(607) 777-2240  
Email Me!

**Membership Directory**
Chris Wolak  
(484) 350-1954  
Email Me!

**Albern Education Fund**
Jason Gilbert  
(607) 777-2240  
Email Me!

**Honors & Awards**
Kyle Nedlik  
(607) 321-6100  
Email Me!

**Historian**
Richard Sanguinito  
(607) 231-6605  
Email Me!

**Symposium– Fall/Spring**
Adam Keller  
(315) 484-9526  
Email Me!

**Auditing**
Rick Sanguinito & Andrew Nice  
(607) 231-6605 / 607-760-5960  
Email Me!

**Webmaster**
Petros Papathomopoulos  
(607) 723-9421  
Email Me!

**Newsletter Editor**
Andrew Nice  
607-760-5960  
Email Me!

**YEA: Young Engineers**
Dana Schmitt  
(315) 920-0487  
Email Me!

**Publicity**
Andrew Nice  
607-760-5960  
Email Me!
# Twin Tiers Chapter – Monthly Meeting Information

## 2019-2020 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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<tr>
<td>17-Sep</td>
<td>Richard Reichenbach - Sporlan</td>
<td>Flame-Free Refrigerant Fittings</td>
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<tr>
<td>15-Oct</td>
<td>Multiple/TBD</td>
<td>Fall Engineering Symposium—Daytime</td>
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<tr>
<td>20-Nov</td>
<td>Eric LePore, P.E. - Cornell University</td>
<td>Koffman Southern Tier Incubator Tour Research Promotion Night</td>
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<tr>
<td>17-Dec</td>
<td>Paul Torcellini, Ph.D. Distinguished Lecturer</td>
<td>The Advanced Energy Design Guide for Zero Energy Buildings Past President &amp; History Night</td>
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<tr>
<td>21-Jan</td>
<td>Michael Martin, P.E. McFarland Johnson</td>
<td>SUNY Broome Calice Advanced Manufacturing Center Membership Promotion</td>
<td>22</td>
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<tr>
<td>18-Feb</td>
<td>M. Stanley Whittingham Binghamton University 2019 Nobel Prize Laureate in Chemistry</td>
<td>The Origins of the Lithium-Ion Battery, the Nobel experience and the potential impact of Energy Storage.</td>
<td></td>
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<tr>
<td>17-Mar</td>
<td>Southern Tier Fabrication Tour</td>
<td>Southern Tier Fabrication Tour Student Night &amp; YEA</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>Brewery Tour</td>
<td>Presentation/Tour: TBD</td>
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<tr>
<td>16-Jun</td>
<td>None</td>
<td>Golf Tournament</td>
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</table>

**NOTE:** Speakers and topics are subject to change based on availability.
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Chris Devins 315-234-1501
Shey Doane 315-234-1509
Glenn Roberts 315-234-1527
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Or Send Check and copy of business card to Twin Tier News Letter Editor:
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Attn: Andrew Nice
275 Broome Corporate Parkway
Conklin, NY 13748

• Email a copy of your business card to Twin Tier Newsletter Editor Email.

From Web site please visit: [http://twintiers.ashraechapters.org/page-newsletter.html]

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

Business Card Advertising 2020

The Twin Tiers Chapter of ASHRAE can accept business card advertising with the following provisions:
-- The company must be associated with HVAC&R technology.
-- The company must be a local service provider, a local manufacturer, or a manufacturer’s representative serving the area.

If you aren’t sure, just ask.

We are now accepting business card advertisements for the newsletters that will be published in 2020. This is a great opportunity to get your name and business in front of the over 250 subscribers to our chapter newsletter. The price for the newsletter only is $50 for the entire 2020 year.

Business card ads can be placed using a scanned electronic copy of your business card, or you can mail your card to me (please no staples or paper clips).

Questions? Call or email
Thank you for your support!
Andrew Nice
Twin Tiers ASHRAE H.O. Ward Scholarship

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

H. O. WARD SCHOLARSHIP
Date: December 05, 2019

Twin Tiers Chapter,

It has been some time since a scholarship could be offered. We would like to reestablish the scholarship opportunities for student members, children of members, grandchildren of members, nephews and nieces of members. Please consider passing this application to your children or grandchildren. The program is guided for HVAC interest.

This would include but not limited to:
- HVAC trade school students
- Engineering students in building programs
- Engineering students with an interest to become a Professional Engineer (Mechanical)
- Engineering students in manufacturing (HVAC equipment)
- Engineering / trade school student that can demonstrate how their study relates to HVAC aspect like building trades, equipment manufacturing, research and development, HVAC maintenance, etc..

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

APPLICATIONS MUST BE SUBMITTED BY FEBRUARY 15, 2020
Harry E. Ellsworth, an ASHRAE Twin Tiers Chapter life member, founding charter member, past chapter officer and past chapter historian, passed away peacefully on Monday, December 9, 2019. Harry's obituary is copied below.

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

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

Samuel Iwobi
1939 - 2019

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

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

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

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

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February Chapter Meeting Announcement

LOCATION:
Holiday Inn Arena, 2 Hawley Street, Binghamton, NY

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

POSTER PRESENTATION/CELEBRATION:
Your Chance To Participate. Each individual or Company is invited to
bring a poster and an easel to “show-off” a completed project that was successful.
We will place them in the room for viewing during our arrival time.

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

SPEAKER:
2019 Nobel Prize Laureate in Chemistry – M. Stanley Whittingham,
Distinguished Professor of Chemistry and Material Science at Binghamton University.

SUBJECT:
“The Origins of the Lithium-Ion Battery, the Nobel experience and
the potential impact of Energy Storage”

Reservations due by Friday, February 14, 2020
February Chapter Meeting Announcement

2020 ENGINEERS WEEK DINNER
Tuesday, February 18, 2020

REGULAR REGISTRATION

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<th>NAME</th>
<th>AFFILIATION/COMPANY</th>
<th>EMAIL FOR CONTACT</th>
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Number of Persons for:

1) ________ Prime Rib of Beef ________ @ $40.00* each = $ ________ High School & Middle
2) ________ Grilled Salmon ________ @ $40.00* each = $ ________ School students reduced
3) ________ Chicken Piccata ________ @ $35.00** each = $ ________ Dinner prices *$25.00 each
4) ________ Pasta a la Vodka ________ @ $35.00** each = $ ________ or ** $20.00 each

Make checks payable to Broome Chapter NYSSPE. Mail to: Engineers Week Dinner, c/o Wonjune Hong, 416 Jodie Drive, Vestal, NY 13850. If you need information, you may email Wonjune.hong@lmco.com. Sorry no refunds after February 14.

STUDENT REGISTRATION
FREE TO BINGHAMTON UNIVERSITY STUDENTS
To register for this event, email mvandeus@binghamton.edu and provide the following information:

- Name
- Email

- Meal selection (Prime Rib, Grilled Salmon, Chicken Piccata, Pasta a la Vodka)

*The Dean’s Office proudly sponsors students, faculty and staff who would like to attend this event. We expect any student who registers for this event to attend, or be responsible for reimbursing the cost of their registration and meal.

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*** All names/brands are removed to protect the guilty.***
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) 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!
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Twin Tiers Chapter – Employment Opportunities

Estimator

ESTIMATOR – Entry Level Position

Requirements:

- Ability to read & interpret architectural & mechanical drawings & specifications
  - Working knowledge of air handling systems
- Computer skills – familiar with business systems, excel spreadsheets
  - Company training provided for dedicated estimating system
    - Ability to work within team environment
      - AAS degree preferred

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

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

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

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

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

Advancing HVAC&R to serve humanity and promote a sustainable world’

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