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Statements made in this publication are not expressions of the Society or of the Chapter and may not be reproduced without special permission of the Chapter.
November 12, 2018 - 2018 CNY Engineering Expo:

Location: OnCenter, Syracuse

November 12, 2018 - Membership Promotion Night:

Time: 5:00pm—7:00pm (after the Expo)

Location: Dinosaur BBQ, 246 W. Willow Street, Syracuse
A lot of things happened with our Chapter in the past two months!

First, we started off our 2018-19 ASHRAE year with the Empire Brewery tour in Cazenovia. The weather was perfect, we had about 30 people came to the recently constructed brewery in Cazenovia. The facility manager introduced the company history to us and toured us through the whole brewing process. We also finished the Chapter Officers’ installation for this year. Thanks to our beverage sponsor Daikin, everyone got a chance to taste some fresh locally brewed beer. And followed by a fierce foosball competition!

In late September, the 7th International Building Physics Conference was held in recently renovated Marriott Syracuse Downtown. Our chapter proudly sponsored the event! Presenting our Chapter, I attended the conference and served as a judge for students’ poster competition. I am amazed to see so many people from all parts of the world – 33 countries represented – coming to Syracuse to discuss healthy, intelligent and resilient buildings and urban environments!
We were excited to host our October meeting – a student activities’ night – right on SUNY ESF campus! Joshua and Peter from SUNY ESF facilities provided the PDH accredited tour at the Gateway Center. We had a great turnout – almost 50 people, among who many SU and ESF students joined us. I assigned the chapter board members the task to speak and get to know at least one student; I believe many students not only learned about the high efficiency CHP systems, but also learned something about ASHRAE and career advice from local professionals. I emphasized that our Chapter will keep all our monthly programs free to students – so bring your friends and come to our meetings to learn something about HVAC&R industries.

In October, I also had the pleasure to visit Niagara Frontier Chapter as a Regional Vice Chair for YEA and presented a topic on sustainability and resiliency in their main program. Many industry people showed up for the lunch meeting, and I got a chance to meet some local YEA members as well as local Chapter board members.

The 4th annual CNY Steamboat Challenge was held at the MOST on Saturday, October 13, 2018. Students built a boat out of recycled materials and a homemade metallic engine that produces steam to propel the boat when heated by a tea light candle. Teams of between one and four students in grades four through 12 raced their boats on 3 inches of water along 10-foot-long inflatable tracks. The competition is divided into three levels: Division I (grades 4-6), Division II (grades 7-8) and Division III (grades 9-12). Please join me to congratulate our 2018 CNY Steamboat Challenge winners:

Division I
First place: Dragon Boat (no school)
Second place: Chen Boy of Eagle Hill Middle School
Third place: Lab Rats of Syracuse Academy of Science
Division II
First place: The Ravens of Syracuse Academy of Science
Second place: Overtaker of Syracuse Academy of Science
Third place: Oofer Boat Sailors of Jamesville-Dewitt Middle School

Division III
First place: Team Supreme of Faith Heritage
Second place: Pegasus of Syracuse Academy of Science
Third place: Usain Boat of Syracuse Academy of Science

By now you may have already heard about the closing of Hinerwadels where we held many of our annual ASHRAE Clambakes for the past 78 years. Our Chapter is committed to continue bringing almost 1000 people in local HVAC&R industries together once a year – we will plan our 2019 ASHRAE Clambake at Spinning Wheel in North Syracuse.

Last but not least, please join us at the 2018 CNY Engineering Expo at Oncenter on Monday, November 12. ASHRAE CNY Chapter will sponsor the Mech/HVAC/Energy track. Also please join us for appetizers and drinks right after the Expo at Dinosaur BBQ – thanks to our sponsors from RF Peck and Liberty Electric, they are free. Hope to catch up with you there!

Sincerely,

CL

Chonghui Liu

CNY ASHRAE Chapter President 2018-2019

Figure 5. The 4th CNY Steamboat Challenge at the MOST, Syracuse
Membership Promotion Night

Join us for appetizers and drinks after the CNY Engineering Expo!

Monday, November 12, 2018
5:00 PM – 7:00 PM

ASHRAE will be hosting a networking event at the famous Dinosaur-Bar-Que restaurant after the CNY Engineering Expo at the Oncenter.

We invite all engineers in town for the Expo to attend! This is a great opportunity for engineers from different disciplines to get together and network after a long day of educational seminars at the Expo.
(Note: there will be no PDH seminars provided at our event)

Free Registration Includes:
Open Bar (Beer/Wine) and Appetizers

The Dinosaur Bar-B-Que is less than a mile from the Oncenter. Free off-street parking will be available at the parking lot across the street from the restaurant.

What is ASHRAE?
ASHRAE, founded in 1894, is a global society based in the U.S. advancing human well-being through sustainable technology for the built environment. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability within the industry. The organization is a leader in industry research, standards writing, publishing and continuing education.

Join our email list!
Receive notifications on upcoming events

THANKS TO OUR SPONSORS!

R.F. Peck
Liberty Electric

Membership Promotion Chair
Derek Birdsall
derek.birdsall@carrier.utc.com

Young Engineers in ASHRAE (YEA) Chair
Zack DeHaas
zack.dehaas@daikinapplied.com

Student Activities Chair
Andrew Brownell
Andrew.Brownell@carrier.utc.com
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Welcome Remarks by: Ryan McMahon, Onondaga County Executive

Ethics & Leadership

DP Niem, Beggeman Associates

1.0 PFD for PC, Engineering Ethics

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Welcome Remarks by: Ryan McMahon, Onondaga County Executive

Ethics & Leadership

DP Niem, Beggeman Associates

1.0 PFD for PC, Engineering Ethics
PROGRAM CHAIR UPDATE

An update on the Syracuse Senior Design Project: In the month of September, the students worked with Sack and Associates to research standards and codes relevant to the project as well as get a deep dive into HVAC design processes. During October, the students have been working with Carrier and HAP to start diving into their design. In the coming months they will be moving into duct layout and system selections.

Geoff Sincavage
President Elect

MEMBERSHIP PROMOTION REPORT

Please welcome the following members to the CNY Ashrae Chapter:

Mr. Earl J Rightmier
Mr. Amit Vaidya
Karam Badran
Mr. Daniel C Krawczyk
Mr. Andrew R Fendrick

Please join us at Dinosaur BBQ@ 6PM the 2nd Wednesday of every month until May. We all look forward to seeing you there!

Current Members if you have 12 society approved years please make sure your ASHRAE membership is at MEMBER grade. In order to become MEMBER grade your profile must be updated with your experience. Please feel free to contact Derek Birdsall Chapter MP at 315-726-2255 with any questions.

Derek Birdsall
Membership Promotion
**CLAMBAKE UPDATE**

I am pleased to announce that the CNY Chapter of ASHRAE’s Clambake will be held at the Spinning Wheel on Thompson Road this year. The tradition continues, it will be on the second Thursday in June. So, save the date, June 13, 2019 from 4pm till 8pm. There will be more details to come in the next few months about the event and hopefully you can attend the event with a new venue.

Cordially,

Steve Sill  
Clambake Chair

---

**Central NY ASHRAE**  
**Board of Governors Meeting**  
**Minutes from October 29th, 2018**

**Location:** Webex

**Attendees:** Matt Clark, Enrica Galasso, Tim Anderson, Bill Walter, Brenden Hall, Nick Stojkovski, Derek Birdsall, John Macblane, Robert Romeo, Steve Sill, Zack DeHaas, Geoff Sincavage, Chris Devins, Charlie Bertuch

**Meeting Started:** 4:00

**Clambake at Spinning wheel**

Cost will be $36 per person, same as Hinderwadel’s. There is a $500 deposit to hold the date (June 13th). Everyone agreed that it is worth it to pay the $500 to hold the date and if something better comes up, we can take the loss.

- **Motion:** Spend $500 for clam bake deposit – only to secure the date
- **Moved by:** Enrica Galasso
- **Seconded by:** Charlie Bertuch
- **Vote count:** For: 15  Against: 0  Abstained: 0

**Meeting Adjourned:** 4:20 PM
Central NY ASHRAE
Board of Governors Meeting
Minutes from September 12th, 2018

Location: Empire Farm Brewery

Attendees: Bill Walter, Brendan Hall, Matt Clark, Enrica Galasso, Chris Devins, Geoff Sincavage, Mark Yonnick, Zack DeHaas, Andrew Brownell, Chonghui Liu, Robert Romeo, Charlie Bertuch

Meeting Started: 4:39 PM

- Motion: Approve Previous meeting minutes
- Moved by: Brendan
- Seconded by: Enrica
- Vote count: For: 11 Against: 0 Abstained: 0

Officer Reports

President:
(C. Liu) – No report

President Elect:
(G. Sincavage) – No report

Vice President & Programs:
(E. Galasso) –
Tour again next month at gateway center at ESF, working on getting PDH. Enrica will put on website with PDH as TBD.

November is TBD, Brendan talking to NYSERDA. Look at getting a DL for November. Could we have a happy hour for November instead of meeting? November 12th is the day of the engineering EXPO, have a booth. Enrica and Geoff will figure out November event.

Secretary:
(M. Clark) – No report

Treasurer:
(C. Devins) –
Region 1 chapter assessment, due December 31st. Pay for active, due paying members.

- **Motion: Pay for region $2124 for Region 1 assessment**
  - Moved by: Chris
  - Second: CL
  - **Vote count:** For: 11  Against: 0  Abstained: 0

Try to set up Morgan and Stanley for December meeting

Note to change tres. Report to start on 7/1/18

- **Motion: Approve treasurer’s report**
  - Moved by: Brendan
  - Second: Matt
  - **Vote count:** For: 10  Against: 0  Abstained: 1

**Committee Reports**

**Membership Promotion:**

(D. Birdsall) – No report

**Research Promotion:**

(T. Anderson) – No Report

**Student Activities:**

(A Brownell) – Will to reach out to student chapter reps (professor) and connect. Introduce new SA chair(s)

SUNY Canton is very interested being involved in the chapter.

Make a list of schools in chapter and get contact. Enrica to provide files from SSW with school contacts.

SU Senior design project – Supposed to get Student Design team assigned this week. First deliverable due in two weeks. Deliver HVAC planning – Building Envelop.

Students to give reports at each meeting.

October is SA night

**STEM Champion:**

(S. Sill) – No Report

**YEA:**

(Z. deHaas) – Continue the “bring a first time yea, get in for free” registration. Plan YEA vs TOY tournament.

**Hospitality:**
(R. Romeo) – No report

Historian:

(B. Walter) – History Night is April 10th, NYMO building tour.

Should we Purchase past president pins and give out on history night? Bill will look at cost for past president pin

Electronic Communications:

(R. Kimball) – No report

Honors & Awards:

(S. Sill) – No report

Gov’t Affairs:

(B. Hall) – Chris and Brendan attended Day on the hill in June. 6 legislators were there. Meeting was at NYSERDA, 6 program managers.

Trying to get official MOU between ASHRAE and NYSERDA

Refrigeration:

(C. Bertuch) –

Sustainability Committee:

(C. Bertuch) – Next meeting

Unfinished Business:

New Business:

RP goal –

Funds were released without BOG approval. Bylaw violation

RP chair needs to understand the amount of money due and where it is coming from. Donations should be recognized. Raffle and Golf tournament should all go to RP

Further discussion next meeting

Steamboat is next month on October 13th

Next Month Meeting: SUNY ESF

Meeting Adjourned: 5:29 PM

• Motion: Meeting adjourned
• Moved by: CL
• Seconded by: Matt Clark
• Vote count: For: 11 Against: 0 Abstained: 0
Application for Student Membership

Join online at ashrae.org/students

At the student branch level, you'll enjoy meeting other students with similar interests – if your school hasn't yet started a student branch, take charge and contact a faculty member and ask for help on getting started.

Why ASHRAE?

- Discounts on publications, conferences, and continuing education opportunities
- Society and chapter-level scholarships for both undergraduate and graduate engineering students
- Discounts for student members on select publications
- Digital access to the monthly ASHRAE Journal, the Technology Portal, the quarterly High Performing Building Magazine, and Science and Technology for the Built Environment (STBE)
- Participate in events with your local ASHRAE Chapter
- Find Internships and jobs at jobs.ashrae.org
- Senior Undergraduate Project Grant Program
- Discounted ASHRAE Annual and Winter Conference registration (AHR Expo, Student Program, Technical Sessions)
- Gain essential skills not taught in class
- Make great new friends!

Developing Economies Program for Students

Students who reside in countries categorized as “Low Income” and “Lower Middle Income” developing economies by the World Bank List of Economies statistics are eligible to participate in this program. Students in this program receive all the benefits of regular student membership, including online access to the ASHRAE Journal (digital access only - participants will not receive a monthly printed copy of the ASHRAE Journal).

Visit www.worldbank.org for a listing of qualified countries: Low Income and Low Middle Income only. If you currently reside in one of the countries listed in those categories, simply check the box marked ‘Developing Economies Program’ in the ‘Purchases’ section of this application.
1. Contact Information.

☐ Mr. ☐ Miss ☐ Ms. ☐ Mrs. *Birthday (required) __________ / __________ / __________ (Month) (Day) (Year)

Name ____________________________________________ (First) (Last)

Primary Address (where all correspondence will be mailed) Alternate Address
Address__________________________________________ Address__________________________________________

__________________________________________________ ______________________________________________________

City ___________ State/Province____ City ___________ State/Province____

Zip/Postal____________ Country________________________ Zip/Postal____________ Country________________________

E-mail __________________________ Phone: __________________________

E-mail __________________________ Phone: __________________________

☐ I would like to receive occasional student updates via email. ☐ I would like to participate in the ______________ ASHRAE Chapter.

2. Student Branch Information. School Name:____________________________

Address:____________________________________________________________________

City:________________________ State/Province:____________ Postal Code_________

3. Education. Classification: ☐ Freshman ☐ Sophomore ☐ Junior ☐ Senior ☐ Masters/PhD. ☐

Full time ☐ Part time ☐ Degree:________________________ Expected Graduation Date: __________________________

(DD/MM/YYYY)

4. Sponsor Information.

All student applicants must have the name and member number of an ASHRAE member serving as their student sponsor. If your Student Branch Advisor is an active Associate or Member of ASHRAE, he/she can serve as your sponsor. If you need assistance locating a sponsor, please email students@ashrae.org or call 678-539-1212. Also, you must list the name, phone and email address of your faculty advisor or course instructor.

Sponsor Name:____________________________________________ ASHRAE Member #: __________________________

Advisor/Instructor:________________________________________ Email:________________________

5. Purchases.

☐ Student Membership- Regular: $21 ☐ Student Membership- Developing Economies Program (see reverse for qualifications) $11

☐ Printed Edition of the current ASHRAE Handbook: ☐ I-P ☐ SI Student Member Price: $49.00

☐ PDF Version of the ASHRAE Handbook (Includes both I-P and SI Units) Student Member Price: $39.00

☐ ASHRAE Handbook Online - One Year Subscription to all four volumes of the Handbook series: $33.00

*Additional publications are available at student member discounts at ashrae.org/studentbookstore

6. Payment. ☐ Visa ☐ Mastercard ☐ Amex ☐ Diner’s Club ☐ Check/money order**

Card # __________________________ Expiration Date ___________/___________ (Month) (Year)

Total Amount: ______________ Signature __________________________

*CHECKS WILL BE ACCEPTED IN US AND CANADIAN FUNDS. CREDIT CARD PAYMENTS ACCEPTED IN US FUNDS ONLY.
MEMBERSHIP

Who are ASHRAE Members?

Members are represented by consulting engineers, mechanical contractors, building owners, employees of manufacturing companies, educational institutions, research organizations, government, architects, students or anyone concerned with HVAC&R for the built environment.

Which Member Type is Right for You?

ASHRAE has three grades of membership awarded to applicants based on their experience and participation in the industry. Before you apply and select a member grade, we encourage you to visit the ASHRAE website to see the member grades and their corresponding member benefits. Prices shown are in US currency.

Member ($209)
Available to anyone with 12 years or more ASHRAE approved experience in the HVAC&R Industry.

Associate Member ($209)
Available to anyone with less than 12 years of ASHRAE approved experience in the HVAC&R Industry.

Affiliate Member ($53 first year, $79 second, $105 third)
Affiliate grade is for individuals who are new to ASHRAE (no previous membership in ASHRAE) and are age 30 or younger. It provides a great beginning for young professionals who wish to become involved in ASHRAE. (Does not include the annual member benefit of the ASHRAE Handbook).

Privacy Policy: By supplying your email address you are agreeing to receive electronic communications from ASHRAE, with the knowledge that you may opt-out of certain electronic communication once you become a member. Please visit ashrae.org/privacypolicy for additional information.

MEMBER BENEFITS AND RESOURCES

Publications & Resources

- ASHRAE Handbook (Available to Members and Associates) in print or PDF, as well as a 12 month complimentary subscription to the Handbook Online, which provides online access to the most recent 4 volumes of the Handbook series.
- Monthly ASHRAE Journal in print and online
- Quarterly High Performing Buildings magazine in print and online
- e-Industry and eSociety electronic newsletters
- Access to members-only resources through ASHRAE.org, the Technology Portal, and Science and Technology for the Built Environment (STBE)
- Discounts on over 300 of the industry’s leading technical publications

Professional Education and Career Development

- Discounted registration for education courses through the ASHRAE Learning Institute, as well as ASHRAE certification programs
- Earn PDHs/CEUs/AIA LUs to maintain your professional designation/license with courses, seminars, and webcasts
- Gain industry knowledge, communication, and management skills by participating in ASHRAE technical programs or committees
- Post jobs or seek employment utilizing jobs.ashrae.org

Networking

- Connect locally, regionally and internationally with over 57,000 members in over 180 chapters worldwide
- Learn, share, and grow at the Annual and Winter Conferences, and ASHRAE technical committees
- Participate in your local chapter or regional meetings and events

Code of Ethics: By submitting this application you are agreeing to abide by the ASHRAE Code of Ethics, found at ashrae.org/codeofethics.
ASHRAE MEMBERSHIP APPLICATION. Please complete each applicable section. Prices valid from 7/01/2018 - 6/30/2019.

1. Contact Information. □ Mr. □ Miss □ Ms. □ Mrs. □ Dr. *Birthday (required) ________/_______/_______ (Month) (Day) (Year)
Name __________________________
(First) _________________________ (Middle) _________________________ (Last) _________________________ (Designation)
Primary Address __________________________ This is a □ Home □ Business
Company Name __________________________
Address __________________________
City __________________ State/Province __________________
Zip/Postal __________ Country __________________
E-mail __________________
Telephone __________ Cell __________
Name/Chapter of referring member (if applicable): __________________________

2. Member Grade.
For additional information on member grades and benefits see reverse or visit ashrae.org.
□ Member — $209 (must complete section 2a)
□ Associate Member — $209
□ Affiliate Member — $33 first year/$79 second/$105 third (new members, under 30)
□ Reinstate my previous membership. Previous member number: __________

2a. Biographical Information. ONLY Member Grade applicants must complete this section.
Use additional sheets or attach resume if necessary. Associate and Affiliate grade applicants do not complete this section.

School Location Dates of Attendance Degree/Course of Study
Education Record

Employer Location Dates of Employment Position/Title
Qualifying Work Experience

Professional Engineering License Number Issue Date Field of Registration Location of Registration
Registration Information

3. Demographics. Please answer the questions by entering the codes in the space provided.

Which best describes your title? __________
B- President C- Partner D- Associate E- Owner F- Vice President G- VP Eng., Chief Engineer K- Design Engineer/Designer L- Pro./Application Eng. O- Facility Eng./Mngr. P- R&D Eng. R- Sales Engineer

Which best describes your firm? __________

Which best describes your function? __________
1- Design/Application 5- Sales 2- Manufacturing 6- Research 3- Maintenance 7- Teaching 4- Management 8- Other

4. Areas of HVAC&R Interest. Enter the code for your area of interest from the list below:
Code: __________
Ventilating & AC H- Air Cleaning J- Industrial K- Clean/Computer Room L- AC Equip. <20tions M- AC Equip. 20-200 tons N- AC Equip. >200 tons P- Air Handling Systems Q- Evaporative Coolers R- IEQ

5. Handbook Preference. New Members and Associate Members receive a 12 month complimentary subscription to the Handbook Online, which includes access to the most recent 4 volumes of the Handbook. If you would like a print copy of the ASHRAE Handbook in addition to this subscription, please choose either IP or SI version below. Handbooks are shipped and mailed to members annually in June.
□ IP (inch/pound units), print with PDF
□ SI (metric units), print with PDF
□ PDF only (IP & SI)

6. Privacy Notice If you DO NOT wish to receive 3rd party physical mailings, please check here. □

7. Include chapter membership dues: □ Dues Amount:_________ Paying chapter dues is encouraged but not mandatory, and can be paid separately to the Chapter at anytime. Contact chapter officers for amount. Add this amount to your Society dues in the “Total Amount” of the payment section below.

8. Payment. □ Visa □ Mastercard □ Amex □ Diner’s Club □ Check/money order**
Card # __________________________ Expiration Date ________/_______ (Month) (Year)
Total Amount: __________ Signature __________________________

CHECKS WILL BE ACCEPTED IN US AND CANADIAN FUNDS. CREDIT CARD PAYMENTS ACCEPTED IN US FUNDS ONLY
What is the SmartStart program?
Simply put, it's the best way for ASHRAE Student members to receive the many benefits of Associate grade membership after finishing college. SmartStart is a 3-year program that allows Student members to transfer to Associate grade membership at a rate that is recent-graduate friendly.

Price
SmartStart pricing structure is based on a gradual increase in membership dues to assist those just starting out, like yourself.

First Year: $21
Second Year: $79
Third Year: $105

Why Transfer to Associate membership?
- Take advantage of the networking and professional development opportunities offered through Young Engineers in ASHRAE (YEA)
- Tremendous networking opportunities at the Chapter, Regional, and Society level
- The ASHRAE Handbook — the indispensable, industry-wide resource for all HVAC&R professionals
- ASHRAE Journal — this monthly resource is the most trusted technical magazine in the HVAC&R community
- High Performing Buildings — the quarterly magazine for innovation in building technology design and operation
- HVAC Industry News — a weekly news resource keeping ASHRAE members abreast of the latest industry news
- Access to more than 300 of the industry’s leading technical publications
- Access to online education, webcasts and professional development opportunities

By submitting this application you are agreeing to abide by the ASHRAE Code of Ethics, found at ashrae.org/codeofethics.

why transfer?

real students.
real reasons.

William Mak
Chicago, Illinois
B.S. in Architectural Engineering,
Milwaukee School of Engineering

Why an engineering career in HVAC&R?
I wanted to pursue an industry that related energy usage, buildings and people.

What has ASHRAE meant for your career?
Through ASHRAE, I have developed valuable connections with people in the field locally and the technical database that comes with membership is priceless. In addition, by getting involved with Young Engineers in ASHRAE (YEA), I have been able to network with other people in the industry in my age group and at a similar place in their career.

Advice to students
Take advantage of resources, discover what you are passionate about and get outside of your comfort zone once in a while. The more you get involved with ASHRAE, the more you will get back in return.

Visit ashrae.org/yea for more information.
ASHRAE STUDENT TRANSFER APPLICATION. Please complete each section. Prices valid from 7/01/2018 - 6/30/2019.

1. Contact Information. Member Number: __________________________

*Birthday (required) _______ / _______ / _______

(Month) (Day) (Year)

Name __________________________

(First) (Middle) (Last) (Designation)

Primary Address This is a □ Home □ Business

Company Name __________________________

Address ______________________________________

City __________________________ State/Province __________

Zip/Postal __________ Country __________

E-mail __________________________

Telephone __________________________ Cell __________

Alternate Address This is a □ Home □ Business

Company Name __________________________

Address ______________________________________

City __________________________ State/Province __________

Zip/Postal __________ Country __________

Alternate E-Mail __________________________

Preferred Chapter □ Home □ Business □ Other __________

3. Areas of HVAC&R Interest.
Enter the code for your 1st, 2nd and 3rd area of interest from the list below:

1. ______ 2. ______ 3. ______

General Areas
1- Controls/Instrumentation
2- Heat Transfer Fluid Flow
3- Pipes, valves, fittings
4- Refg. & Lubrications
5- Sound & Vibration
6- Insulation
7- Energy Recovery
8- Food Application
9- Health, Safety

Ventilating & AC
H- Air Cleaning
J- Industrial
K- Clean/Computer Room
L- AC Equip. < 20 tons
M- AC Equip. 20-200 tons
N- AC Equip. > 200 tons
P- Air Handling Systems
Q- Evaporative Coolers
R- IEQ

Heating
A- Hydronic
B- Forced Air
C- Steam
D- Process
E- Service Water
F- Solar
G- Radiant

Refrigeration
S- Unitary Refrigeration
T- Commercial Refg.
U- Industrial Refg.

V- Process Refg.
W- Low Temp (< 60°F)
X- Refg. Components

2. Career. Please answer the questions by entering the codes in the space provided.

Which best describes your firm? _______

11- Consulting Eng. 43- Utility
12- Architectural & Eng 51- Manufacturer
21- Contractor 62- Sales Engineering
26- Property Mgmt & Dev. 71- Wholesaler/Dist.
31- Industrial Facility Mgt. 83- Library
41- Commercial Facility Mgt. 84- Association
42- Gov't, Healthcare, 91- Other
Education

Which best describes your title? _______

A- Corporate Level L- Proj./Application Eng.
AA- Engineering Mgmt O- Facility Eng./Mngr.
B- President P- Research/Dev/Proj.
BB- Engineering Staff R- Sales Engineer
C- Partner S- Purchasing Agent
D- Associate T- Draftsperson
E- Owner U- Estimator
F- Vice President W- Technician
G- VP/Chief Engineer X- Professor
K- Design Engineer ZZ- Other

Which best describes your function? _______

1- Design/Application 6- Research
2- Manufacturing 7- Teaching
3- Maintenance Operations 8- Other
4- Management
5- Sales

4. Handbook Preference. As a new Associate member you will receive a 12 month complimentary subscription to the Handbook Online, which includes access to the most recent 4 volumes of the Handbook. If you would like a print copy of the ASHRAE Handbook in addition to this subscription, please chose either IP or SI version below. Handbooks are printed and mailed to members annually in June.

□ IP (Inch/pound) print with PDF
□ SI (metric), print with PDF
□ PDF only (I-P & SI)

6. Privacy Notice. If you DO NOT wish to receive 3rd party PHYSICAL mailings, please check here: □

5. Signature.

sign __________________________

date __________________________

7. Payment. □ $205 (3 years: $21-$79-$105) □ $21 (First year only)

□ Visa □ Mastercard □ Amex □ Diner's Club □ Check/money order**

Card # __________________________ CVV _______ Expiration Date _______ / _______

(MM) (YY)

Total Amount: __________ Signature __________________________

CHECKS ACCEPTED IN US AND CANADIAN FUNDS. CREDIT CARDS ACCEPTED IN US FUNDS ONLY.
Statements made in this publication are not expressions of the Society or of the Chapter and may not be reproduced without special permission of the Chapter.
Seventhwave compares ASHRAE 90.1-2010 vs. 2004, looks for sample buildings

Seventhwave is looking for buildings for an ASHRAE research project. We need to compile a sample of middle schools, high schools and 2 to 4 story office buildings from around the country that were designed to comply with ASHRAE 90.1-2010 (or equivalent) or ASHRAE 90.1-2004 code (or equivalent). If you know any such building (name, address, contact information, etc.) and would like to help the project, please contact the Principal Investigator Dr. Joe Zhou at jzhou@seventhwave.org, or fill out a simple, two-minute online survey: here. We will then contact the building owner or designer for additional information.

ASHRAE research project 1814-RP, “Actual Energy Performance of Secondary Schools and Medium Offices Designed to Comply with ASHRAE Standard 90.1-2010,” will study basic building data including actual monthly energy use of 168 secondary schools and medium offices in 14 climate subzones across the U.S. The comparison mainly will be based on actual energy cost analysis, with supporting building energy modeling, energy audits, and surveys of construction, facility, and operations staff. The study will be used to determine common factors among best and worst buildings and to provide recommendations for future energy codes and standards developments.
**JOB OPENING**

**MECHANICAL/HVAC ENGINEER**

**Syracuse, NY**

**C&S Companies**, operating for nearly 50 years, is a national planning, design and construction firm with over 400 employees and growing. C&S Companies delivers critical infrastructure design, planning and construction services in aviation, civil/site infrastructure, construction and program management, construction/design-build, energy, environmental, facilities, architecture, planning, sustainability and transportation.

Our headquarters is in Syracuse, NY with offices in New York State, California, Arizona, Ohio, Michigan, Florida and Pennsylvania.

At **C&S Companies**, we believe work environment, culture, and the opportunity to learn and grow are key elements when considering a new job. We are just the right size to provide the resources and support you need without the burdensome bureaucracy of a large corporate environment. To that end, we foster a family-friendly and supportive workplace, collaborative and employee-focused with an emphasis on quality, integrity, trust, fun and accountability.

Check out our latest opportunity... you will be glad that you did! To learn more about **C&S Companies** please visit us at www.cscos.com

**Position Overview**

C&S Engineers, Inc. is seeking a Mechanical/HVAC Engineer in our Syracuse office to provide mechanical design engineering in heating, ventilation and air conditioning (HVAC) building systems. We are looking for an individual with HVAC experience, who is a self-starter and is highly motivated to work in a team environment on multi-discipline projects. Experience and/or interest in assisting with plumbing and fire protection design is highly desirable. This opportunity involves a great combination of inside and field-based activities. Most site visits involve local travel with occasional out of town travel for short periods.

**Required Knowledge/Skills/Abilities**

- Minimum three years of related experience with preference for applicants with industrial/manufacturing, commercial and aviation experience.
- Bachelor’s degree in Mechanical Engineering from an accredited engineering program.
- EIT certification (or intent to pursue in near future).
- Experience with Autodesk Revit and AutoCAD.
Job Posting: Senior Mechanical Engineer – Buildings – Endicott, New York

The buildings that make up the landscape of our daily lives seem like permanent fixtures, fastened to a time and place. But what if that didn’t have to be true? What if our built environment — where we live, learn, play, and conduct business — carried us forward instead?

Our Buildings practice keeps people at its heart, recognizing that our shared journey forward is shaped by the meaningful and responsive places we design. From iconic designs to monumental groundbreakings, join us to bring transformational building solutions to life. Every day we apply our expertise, creativity, and passion to propel communities into the future—join us!

Your Key Responsibilities

- Preparation of specific project proposals and resulting contracts, project implementation plans, resource planning, quality control and design review, project team review and coordination, client and financial management.
- May assist as Mechanical Engineering Lead overseeing the engineering & design of plumbing / fire protection / HVAC and other mechanical systems for new and renovated buildings.
- Mechanical engineering - Actual designs including the completion of code reviews, preparation of the basis of design/system calculations, mark-up of drawings, specification preparation, field investigations, construction estimating and site inspections and other such design as required to execute the mechanical construction for new or renovated buildings.

To learn more about C&S Companies please visit us at: [www.cscos.com](http://www.cscos.com)

C&S is an Equal Opportunity Employer/Protected Veterans/Individuals with Disabilities.
• May perform Project Manager duties as needed.
• Some travel to site locations or other Stantec offices may be required.

Your Capabilities and Credentials
• Registered PE in the state of New York desired, registration in other states a plus
• Must have strong Mechanical Engineering skills in the area of Plumbing, Fire Protection, HVAC and related mechanical systems
• Prior management experience is a plus
• Prior consulting engineering experience is required
• Experience using AutoCAD, Revit, Trane Trace or eQuest is a plus
• Excellent verbal and written communication skills
• Excellent interpersonal skills with team members and clients

Education and Experience
Bachelor’s degree in Mechanical Engineering
A minimum of 8 – 12 years’ experience is required

This description is not a comprehensive listing of activities, duties or responsibilities that may be required of the employee and other duties, responsibilities and activities may be assigned or may be changed at any time with or without notice.

Stantec is a place where the best and brightest come to build on each others’ talents, do exciting work, and make an impact on the world around us. Join us and redefine your personal best.

Job: Mechanical Engineer
Primary Location: United States-New York-Endicott
Employee Status: Regular
Job Level: Individual Contributor
Travel: No
Schedule: Full-time
Job Posting: Aug 15, 2018, 7:49:06 AM
Req ID: MIG-34052