

ASHRAE Rochester

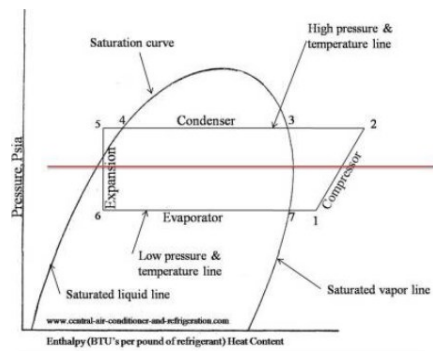


Joe Pompili Photography

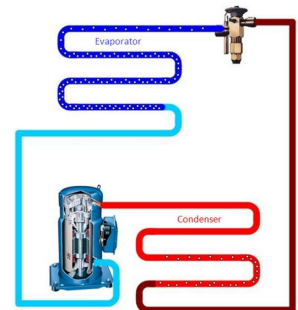
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February ASHRAE Meeting



■ High-Pressure Vapor
■ High-Pressure Liquid
■ Low-Pressure Liquid
■ Low-Pressure Vapor

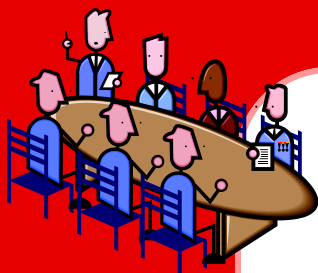


Topic: Refrigeration Presentation and Tour
Presenter: Mike Nohle, Meier Supply
When: Monday, February 11th, 2019 at 12pm
Where: City Grill, 384 East Avenue in Rochester
 Tour immediately following at 430 Atlantic Ave Rochester, NY 14609
Cost: \$25.00

Please RSVP by noon Friday, February 8th to Bret Fryover
fryoverb@erdmananthony.com
 Or
ASHRAERochester@gmail.com

PDH Approved!

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.



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Buyer's Guide

Pete Bukowski (585) 398-8018
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SAVE THE DATE

We are still working on programs for the year, but save the date!

ASHRAE 2018-2019 Meeting Schedule			
Date	Event	Theme	Location
Friday, 2/8	<i>62st Annual ASHRAE Valentines Dinner Dance</i>	---	Strathallan 9th Floor
Monday, 2/11/2019	Refrigeration Piping Design and Tour <i>Presented By:</i> Mike Nohle	<i>Refrigeration Night</i>	City Grill @ 12:00 PM
Monday, 3/11/2019	Healthcare-Associated Infections and Hospital Indoor Air Quality <i>Presented By:</i> Dr. Stephanie Taylor, MD	<i>PDH Pending</i>	City Grill @ 12:00 PM
Monday, 4/8/2019	Recognition, Evaluation and control of Legionella Colonization and Amplification <i>Presented By:</i> Felix Perriello - Alliance Environmental Group	<i>Membership Promotion</i> <i>PDH Approved</i>	TBD
Monday 5/20/2019	<i>Annual Picnic / Golf Outing at Ravenwood</i>	---	11:00 AM Golf 5:30-8:00 Picnic

Mission Statement

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



Shaping Tomorrow's
Built Environment Today

Vision Statement

- will be the global leader in the arts and sciences of heating, ventilation, air conditioning and refrigeration.
- will be the foremost, authoritative, timely and responsive source of technical and educational information, standards and guidelines.
- will be the primary provider of opportunity for professional growth, recognizing and adapting to changing demographics, and embracing diversity.

President's February Message

February Newsletter 2019
President's Message

Thank you to Chris Wolak from Victaulic for presenting 'Design Considerations for Thermal Expansion in Pipes' at our January meeting at City Grill. It was a great presentation, with PDH credits available to those that signed up. Thanks again Chris!

Our February meeting will be Refrigeration night, with Mike Nohle from Meier Supply leading the presentation, taking us through a refrigeration piping sizing example. Immediately following the presentation there will be a tour of Meier Supply for those that wish to attend.

Also, on February 8th, we are having the 62nd annual ASHRAE Valentine's Dinner Dance, hosted by Jody and Matt McGarry, at the Strathallan Rooftop. This is always a class event with great food and memorable times. Please check your mail for the invitation or log on to our website for more information and to purchase tickets to join us! Corporate sponsorship opportunities can also be found online.



Paul Kenna, 2018-2019 President

Please continue to check out our website at www.rochester.ashraechapters.org for information on upcoming chapter meetings, current officer list and contact information, chapter newsletters, and more! Also take a minute and like us on Facebook at www.facebook.com/#!/ashraerochester.

Paul Kenna, P.E.
2018-2019 President
Rochester Chapter

February Meeting Info

Please mark your calendar and join us for the next ASHRAE meeting on **Monday, February 11th**!

Date: Monday, February 11, 2019
 Time: 12:00 PM Lunch Buffet... Presentation to start approx. 12:30pm
Tour immediately following after at 430 Atlantic Ave Rochester, NY
 Speaker: Mike Nohle, Meier Supply
 Topic: Refrigeration Piping Design and Warehouse Tour
 Location: CITY GRILL 384 East Ave, Rochester NY 14607
 Cost: \$25.00

As always, feel free to share this e-mail invitation with anyone you may think would be interested in attending or benefit from this presentation. Your ASHRAE Rochester Chapter appreciates your support and looks forward to your participation each month!

You can **PREPAY** for the event! Remember, as an option, we have on-line payments available via PayPal - No PayPal account required.

Use the following link: <http://rochester.ashraechapters.org/meetings.html>

If you are registering more than only yourself, please send me a quick email with name of the attendees so we can update our guest list.

Cash or check payment is still accepted at the door **with your advanced reservation**. Checks can be made payable to **ASHRAE Rochester Chapter**. Please let me know if you're planning to be there!

Please RSVP by noon Friday, February 8th to Bret Fryover, e-Mail... fryoverb@erdmananthony.com, or Phone: 585.563.5152

Attention Members:

Just a reminder that all members that reserve a spot for the monthly meeting will be responsible for that reserved space.

Members have until 12:00 pm the day of the RSVP deadline to cancel their meeting reservation.

Failure to comply with this rule will result in the attendee being responsible for the payment of that reservation.

ASHRAE Rochester Chapter Officers

February Meeting Info

Please welcome Distinguished Lecturer Stephanie Taylor, M.D., M. Arch

CEO
Taylor Healthcare Consulting
PO Box 593
Stowe, VT 05672-0593
United States
(860) 501-8950
Region: I
Honorarium: Negotiable
MD@taylorcx.com



Dr. Stephanie Taylor received her MD from Harvard Medical School, Boston, Massachusetts in 1984. For the next several decades, she practiced clinical medicine and did academic research in cellular growth mechanisms.

During this time, she became increasingly concerned about patients who were harmed by new infection during their in-patient treatment. Determined to gain a better understanding of the impact of the built environment on patient well-being, she returned to school and obtained her Master's Degree in Architecture and Engineering from Norwich University in Northfield, Vermont. After working for several years in a healthcare design architecture firm, she founded Taylor Healthcare Consulting, Inc., in order to focus on designing, building and maintaining hospitals to better support patient healing. She quickly learned that many of the building and indoor air characteristics that affect people in hospitals also influenced the health of all people in buildings.

Dr. Taylor is currently working at the intersection of architectural design, indoor air management, the microbiome of the built environment and occupant health. She finds the impact of buildings on our health startling! Managing the built environment and indoor air with the goal of decreasing diseases from acute infections to chronic inflammation to cognitive impairment, is a very underutilized yet powerful approach to disease prevention. She finds that her physician insights and biological research helps her understand the science behind the interaction of buildings, human physiology and energy consumption.

Dr. Taylor has designed hospitals globally, from the United States to Papua New Guinea to Vietnam. In addition to her Taylor Healthcare Consulting work, she is a member of the Harvard Medical School Incite Health Fellowship. This program brings together multidisciplinary teams from across the US, trains them in design thinking and entrepreneurship, and gives them the tools and resources to guide the future of medical care.

To communicate her work and understanding about the fascinating convergence of human health, microbiology and architecture, Dr. Taylor writes monthly columns and bi-annual feature articles for Engineered Systems Magazine and publishes in other healthcare journals. She is an active member of ASHRAE, ASHE and national and international medical associations. When not working elsewhere, Dr. Taylor lives in beautiful Stowe, Vermont with her husband and eight dogs. One of her favorite activities is skydiving, which she finds is great practice for staying outside of her comfort zone!

Highlights from January ASHRAE Meeting

Chris Wolak from Victaulic presents to the Rochester ASHRAE Chapter “Design Considerations for Thermal Expansion in Pipes” during lunch at the City Grill on Monday January 14th.





This section of the newsletter is reserved for those firms wishing to advertise their desires to hire from the Chapters Membership. If you are interested in utilizing this FREE service provided by the Rochester Chapter, please contact our Chapter President, Paul Kenna at (585) 261-0558 or by email paul.kenna@pres-services.com.

This service is available to ASHRAE members for any local firm in our industry looking for knowledgeable persons in the HVAC&R industry.

RL STONE

an FCX Performance Company



Help Wanted – Inside Sales Representative

Regular Full-Time

Required Knowledge

- *Accounting Standards, Customer Service, Product knowledge, etc.)* Responds to customer inquiries.
- Process customer orders and send order acknowledgements.
- Review customer purchase orders for special conditions/documentation.
- Check availability and verifies ship dates.
- Process and expedite orders, customer returns and returns to vendors in an accurate and timely manner.
- Negotiate pricing and delivery with vendors when necessary.
- Communicate effectively and participate positively as a member of the Branch/Division (e.g. sharing work load when possible, picking incoming phone calls, etc.)
- Achieve and maintain rapport with customers and works to give them the best possible service. This is done through a combination of problem solving skills, attention to detail, and developing a friendly but professional relationship with customers.
- Resolve customer issues such as warranty claims, product returns, credit and collection, and other customer service issues.
- Review open customer order reports and takes action on open items; specifically, those items that may be at risk in meeting the customer's promised delivery date. Maintain Distribution System backorder report, associated customer expediting report/notices, and customer notification, as required.

RL STONE

an FCX Performance Company



Help Wanted – Inside Sales Representative

Required Knowledge (continued)

- Assumes responsibility for project submittals and documentation including coordination between vendors and project contractors.
- Assures project contract documentation requirements are maintained and communicated to Management.
- Other duties as assigned by Management
- Maintain the filing and organization of company documents.

Essential Physical Functions/Equipment Used:

- Able to operate standard office equipment, namely computer, multi-line VoIP phone system, printer/copier/scanner and other equipment as needed.
- Must be able to sit for long periods of time while viewing computer screen.

Essential Functions:

Self-motivated with a can-do attitude that identifies smart, creative methods to complete complex tasks with minimal effort.

- Aggressive in sales tactics and strategies; desire to close sales every phone call.
- Excellent internal & external communication and problem solving skills.
- Strong organizational and task management skills.
- Able to tackle multiple projects while being organized, detail, and deadline oriented.
- Ability to relate to all levels of employees within the organization, as well as people customers & vendors.
- Ability to focus on company expectations while continuously striving for continuous improvement.

Preferred Education/Experience:

- Bachelor's Degree **preferred**.
- 1-3+ years' experience in Customer Service related Industry preferred, experience in an Inside Technical Sales/Customer Service/Application Engineer role with an Industrial Distributor a plus.

Work Environment:

- Modern, multi-function office environment.
- Normal working hours are 8:00am to 5:00pm, Monday through Friday; Additional hours as needed.

Please Contact:

Josh Murray – RL Stone Co.

585-203-1222

joshm@rl-stone.com

PAOE

Chapter: ROCHESTER (011)
Chartered: 11/30/1955



Members
(CIQ)



Chapter
Reports



Chapter
Meetings



PAOE



Chapter
Settings

Expanded

Achievements

▶ Chapter Operations	Par: 1200	Min Points: 600	Total Points: 430
▶ Chapter Technology Transfer	Par: 1050	Min Points: 550	Total Points: 0
▶ Electronic Communications	Par: 600	Min Points: 250	Total Points: 50
▶ Government Affairs	Par: 650	Min Points: 500	Total Points: 300
▶ Historical	Par: 300	Min Points: 100	Total Points: 205
▶ Membership Promotion	Par: 800	Min Points: 500	Total Points: 525
▶ RP	Par: 1050	Min Points: 800	Total Points: 335
▶ Student Activities	Par: 500	Min Points: 300	Total Points: 0

Get To Know ASHRAE



To avoid having ASHRAE messages blocked by spam-blocking software, add LearningInstitute@ashrae.org to your address book.

You are receiving this email from ASHRAE because you are a member, purchased a product/service, or requested to be notified of educational opportunities from ASHRAE. To no longer receive these updates, [unsubscribe or manage your email preferences](#).



1791 Tullie Circle, NE
Atlanta, Georgia 30329
www.ashrae.org | [Privacy Policy](#)

Like us on Facebook!

Visit our new Facebook page by searching for “ASHRAE Rochester” on Facebook. Any ideas for additions or improvements email to Mark Kukla at mark@airsystemsbalancing.com. Keep up to date with current events and photos from recent meetings.

YOUNG ENGINEERS IN ASHRAE (YEA)

Our next YEA Social Event will be held on Thursday March 7th at Radio Social from 5-7pm. Radio Social is located at 20 Carlson Rd Rochester 14610. Please contact Matt Kremers to RSVP mkremers@mcsmms.com

STUDENT ACTIVITIES

ASHRAE and National Engineers Week

Promoting engineering to youth in the community has become more important than ever. To celebrate this year's National Engineers week (February 18 - 22, 2018) ASHRAE members will be reaching out to youth in the surrounding communities. Founded by NSPE in 1951, National Engineers Week is dedicated to ensuring a diverse and well-educated future engineering workforce. During this week long recognition program, engineers are encouraged to speak with youth about the importance of engineering and technology in today's world.

We are looking for anyone who is interested in taking the time to contribute to our communities! We have a few volunteers, but could always use more!

We have the following schools lined up for presentations:

- Rush Henrietta Senior High School
- Fairport High School
- East Irondequoit High School
- Naples High School

If you'd like to get involved, please reach out to me directly at rhudson@ibceng.com.

Rob Hudson, PE, BEMP, CEM
Student Activities Chair

NOMINATING COMMITTEE

The function of the members of the Nominating Committee is to select nominees for the elected officers and members of the Board of Directors, both Directors-at-Large and Director and Regional Chair.

After the winter meeting, the chair and designated committee members advise all proposed candidates of the slate of nominees.

This year's nominating committee are as follows:

- Nominating Committee Chair – Bill Clark, Past President
- Jeff Close, Past President
- Chris Walter, Past President
- Ed Burns, Past President
- Michelle Sommerman, Past President

If you are interested in volunteering, or want more information, please reach out to one of our Past Presidents!



WIA – Rochester Chapter Women in ASHRAE

Upcoming Networking Events

- **SWE Rochester Professional/Collegiate Networking Event**

February 20th, 2019 6:30PM

Location: University of Rochester, Gavett Hall Room 301

For more information: <http://www.swerochester.org/>

- **Girls in Architecture sponsored by AIA, The Architectural Foundation of Greater Rochester and ASHRAE Rochester Chapter.**

Local female architects, engineers and designers are hosting a “Girls in Architecture and Engineering” program at the Penfield Library on Monday afternoons starting on Monday, February 25th 4-6PM. The event is open to girls in 6-8th grade.

For more information: <https://calendar.libraryweb.org/event/4970085>

- **WiA Book Club @ Erdman Anthony**

TBD mid-March

Women-in-ASHRAE will be continuing book club every 2-3 months. If you have a recommendation, please send information to Jaimee Wilson.

UPCOMING BOOK: “Drop the Ball: Achieving More by Doing Less” by Tiffany Dufu

Available at Monroe County Library: <https://catalogplus.libraryweb.org/>

For questions or suggestions regarding future WIA events or books, please contact Jaimee Wilson:

jwilson@pathfinder-ea.com

ASHRAE Technology Awards

The deadline for Chapter level ASHRAE Technology Awards is fast approaching. ASHRAE Technology Awards recognize outstanding achievements by members who have successfully applied innovative building design in the areas of occupant comfort, indoor air quality and energy conservation.

Awards are presented in six categories for new and existing facilities:

- Commercial Buildings (New, Existing, EBCx)
- Institutional Buildings (New, Existing, EBCx)
 - Educational Facilities
 - Other Institutional
- Health Care Facilities (New, Existing, EBCx)
- Industrial Facilities or Processes (New, Existing, EBCx)
- Public Assembly Facilities (New, Existing, EBCx)
- Residential

Judging is based on the merits of Energy Efficiency, IAQ and Thermal Comfort, Innovation, Operation and Maintenance, Cost Effectiveness, Environmental Impact and Quality of Presentation.

Chapter level award applications require only a one-page application, a schematic and a short narrative.

First place winners in each of the six categories at the chapter level will be submitted for judging in the regional awards competition.

Awards are intended for built projects and as such must have been occupied prior to September 1st, 2018 to be eligible.

The following link includes additional details about the awards program:

<https://www.ashrae.org/membership/honors-and-awards/technology-awards-program-overview>

Please consider representing the Rochester Chapter of ASHRAE by submitting your project for consideration before **May 1, 2019**. Email jwiedrick@bergmannpc.com with any questions, to receive an application form, for a sample application or any other concerns.



ASHRAE Membership Application

Save Time. Join Online at www.ashrae.org/join

Shaping Tomorrow's
Built Environment Today

Prices shown are valid from July 1, 2017 through June 30, 2018

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 (\$206)

Available to anyone with 12 years or more ASHRAE approved experience in the HVAC&R industry.

Associate Member (\$206)

Available to anyone with less than 12 years of ASHRAE approved experience in the HVAC&R industry.

Affiliate Member

(\$52 first year, \$78 second, \$103 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, including the ASHRAE Journal and ASHRAE Research archives
- 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 www.ASHRAEjobs.com

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, on ASHRAE technical committees, and ASHRAExChange.org
- 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.

Completed applications or questions can be sent to ASHRAE via
email: membership@ashrae.org | fax: 678-539-2129 | phone: 1-800-527-4723 or 404-636-8400
mail: 1791 Tullie Circle, NE, Atlanta, GA 30329

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 Alternate Address This is a Home Business

Company Name _____ Company Name _____

Address _____ Address _____

City _____ State/Province _____ City _____ State/Province _____

Zip/Postal _____ Country _____ Zip/Postal _____ Country _____

E-mail _____ Alternate E-Mail _____

Telephone _____ Cell _____ Preferred Chapter Home Business Other _____

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 — \$206 (must complete section 2a)
 Associate Member — \$206
 Affiliate Member — \$52 first year/\$78 second/\$103 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
Educational Record			
Employer	Location	Dates of Employment	Position/Title
Qualifying Work Experience			

Professional Engineering Registration Information License Number _____ Date Issued _____ Field of Registration _____ Location of Registration _____

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

Which best describes your title? _____

B- President	S- Purchasing Agent
C- Partner	T- Draftsperson
D- Associate	U- Estimator
E- Owner	W- Technician
F- Vice President	X- Instructor
G- VP Eng. Chief Engineer	Professor
K- Design Eng./Designer	Y- Student
L- Proj./Application Eng.	Z- Librarian
O- Facility Eng./Mngr.	ZZ- Other
P- R&D Eng.	
R- Sales Engineer	

Which best describes your firm? _____

11- Consulting Eng.	51- Manufacturer
12- Architectural & Eng	61- Manufacturer's Rep.
15- Design/Build	62- Sales Engineering
21- Contractor	71- Wholesaler/Dist.
26- Property Mgmt & Dev.	83- Library
31- Industrial Facility	84- Tech/Prof Assoc.
41- Commercial Facility	85- Trade Assoc.
42- Gov't, Health, Education	86- Student
43- Utility	91- Other/Misc.

Which best describes your function? _____

1- Design/Application	5- Sales
2- Manufacturing	6- Research
3- Maintenance Operations	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: _____

Heating	Refrigeration
A- Hydronic	S- Unitary Refrigeration
B- Forced Air	T- Commercial Refg.
C- Steam	U- Industrial Refg.
D- Process	V- Process Refg.
E- Service Water	W- Low Temp (<60F)
F- Solar	X- Refg. Components
G- Radiant	
	General Areas
Ventilating & AC	1- Controls/Instrumentation
H- Air Cleaning	2- Heat Transfer Fluid Flow
J- Industrial	3- Pipes, valves, fittings
K- Clean/Computer Room	4- Refg. & Lubrications
L- AC Equip. <20 tons	5- Sound & Vibration
M- AC Equip. 20-200 tons	6- Insulation
N- AC Equip. > 200 tons	7- Energy Recovery
P- Air Handling Systems	8- Food Application
Q- Evaporative Coolers	9- Health, Safety
R- IEQ	10- Commissioning

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 chose either IP or SI version below. Handbooks are printed and mailed to members annually in June.

I-P (inch/pound units), print with PDF
 SI (metric units), 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.

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

Application for Student Membership



Join online at www.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 and the quarterly High Performing Building Magazine
- 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 _____ E-mail _____

Phone: _____ 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: _____
 (MM/DD/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



Rochester Chapter - ASHRAE
Board of Governors Meeting
January 11th, 2019 7:30 AM - 8:30 PM
Erdman Anthony, Culver Rd, Rochester, NY

MEETING MINUTES

1. Call to Order Paul Kenna
2. Roll Call Scott Edwards

X	Paul Kenna	President / CRC Alternate
X	Tom Streber	President Elect / Program
X	Mike Benedict	Treasurer
X	Scott Edwards	Secretary & Newsletter Editor
X	Bill Clark	Immediate Past President & Nominating / CRC Delegate
	George Herman	Board of Gov. (3) & Membership Promotion Chair (MP)
X	Marjani Wilson	Board of Gov. (2) & Grassroots Government Advocacy Co-Chair
	Jeff Wiedrick	Board of Gov. (2) & Chapter Technology Transfer Chair (CTTC)
X	Matt Kremers	Board of Gov. (2) & Young Engineers in ASHRAE Chair (YEA)
X	Bret Fryover	Board of Gov. (1) & Attendance Co-Chair
	Chris Bove	Board of Gov. (1)
X	Tim Duprey	Attendance Co-Chair
	Jake Hall	Historian Chair
X	Matt Devlin	Research Promotion Co-Chair (RP)
X	Zachary Hess	Research Promotion Co-Chair (RP)
X	Rob Hudson	Student Activities Chair (SA)
	Al Rodgers	Awards & Recognition Chair
	Bill Murray	Education
	Mark Kukla	Publicity
	Jim Browe	Picnic/Golf Chair
	Pete Bukowski	Buyers Guide
X	Jody McGarry	Valentine's Dinner Dance
	Mike Nohle	Refrigeration Co-Chair
	Sam Scorsone	Refrigeration Co-Chair
	Jaimee Wilson	Women in ASHRAE, Chair
	Michelle Sommerman	Women in ASHRAE

3. Review and Approval of Previous Meeting Minutes All
- Motioned by Matt Kremers
 - Second by Tom Streber

4. Treasurer Report Mike Benedict
- Financials from Dec. Meeting and Overall
 - December meeting
 - Income \$ 1,750.30
 - Debits \$ 1,633.50
 - Net \$ 116.80
 - KeyBank Business Checking \$16,633.29
 - KeyBank Reward Checking \$26,732.56
 - Charles Lynch Fund \$ 51,801.56 - from December
 - Need check for Strathallan (Valentine's Dinner Dance)
5. President Elect/Program Tom Streber
- January Meeting is PDH approved
 - Refrigeration night and topic is moved to February
 - i. System design explanation and exercise
 - March meeting - DL has cancelled. New topic is on Legionella
 - April is tentative
6. Attendance Bret Fryover
- December Reservation Summary
 - i. 75 people attended
 - ii. Less walk ins this year so far
 - January - Current Reservation Numbers
 - i. Only 25-30 people signed up so far
 - New Mtg Reservation Payment System Tim Duprey
 - i. No report
7. CTTC Report Jeff Wiedrick
- New Project submission by April 1, 2019
 - Will have something for February Newsletter
8. Membership Report George Herman
- Current members - no report
9. Student Activities Report Rob Hudson
- STEM activity ramping up
 - Currently working on booking presentations at local high school technology classes to discuss careers in HVAC engineering. I have 9 on my list, just waiting on responses and final scheduling.
 - I will also be presenting to an RIT Refrigeration and Air Conditioning Course in April, with the aim to expose them to our industry and potentially recruit student members.
 - E Month - introduce a female to engineering
10. Education Report Bill Murray
- No Report
11. YEA Report Matt Kremers
- Radio Social event being planned again this year
 - Date to follow soon

12. Awards & Recognition Report AI Rodgers
- All members, not just officers and BOG members need to update their ASHRAE biographies and check the Chapter or Regional award criteria to see if they can be nominated for the award at the CRC. Their biography is on the ASHRAE website when they sign in. It can be updated easily right from that screen.
- If they are eligible, they should complete the form(s) and get them to AI Rodgers and Paul Kenna
13. Resource Promotion Report Zac Hess / Matt Devlin
- Current vs. Goal on track
 - Major Donors are usually later in the year and hoping to improve that
14. Refrigeration Report Mike Nohle / Sam S.
- Planning for February meeting ongoing
 - Tour at Nohle Refrigeration to follow City Grill presentation (tour is after lunch)
15. Grassroots Government Advocacy Report Marjani Wilson
- No New Report
16. Women in ASHRAE Jaimee
- Book Club - 1/23, Noon-1 pm, Erdman Anthony
 - Girls in Engineering and Architecture - 2/25, 3/4, 3/11
17. Newsletter Report Scott Edwards
- RES deadline yesterday
 - Reminder for ASHRAE newsletter will arrive last Friday in January
18. Buyers Guide Pete Bukowski
- No New Report
 - Work in Progress
19. Historian Report Jake Hall
- No report
20. Publicity Report Mark Kukla
- As always, please send any meeting pictures to Mark
21. Website Report Tim Duprey
- Please direct updates to Tim
22. Nominating Report Bill Clark
- 3 of 4 confirmed for nominating committee
 - 2 of 3 presenters confirmed for RES symposium (April 23rd)
23. Valentines Dinner Dance Report Jody McGarry
- Friday 2/8/19
 - Strathallan rooftop
 - Please consider corporate sponsorship
24. Golf/Picnic Report Jim Browe
- No report

25. Presidential Award of Excellence (PAOE)
 - Please update on website
26. New Business:
 - Looking to do a ski trip at the end of February, with Syracuse
 - i. During the week day & it is a family event
27. Old Business:
 - Removal of Jeff Ellis from PayPal
 - 2017-18 Audit - Paul K to send resolution for approval
28. Next BOG Meeting
 - Friday, February 8th, 7:30-8:30 am, location TBD
29. Adjourn, 8:17am



Dear ASHRAE Member,

Back by popular demand!

As you know, time is flying by so quickly. So, we're coming to you early this year. **ASHRAE's 62nd Annual Valentine's Dinner Dance** will be on Friday, February 8th, 2019 at the beautiful "Rooftop" at the Strathallan.

ASHRAE is asking for your corporate sponsorship to help alleviate the cost to our Chapter. Your sponsorship will allow us to have an elegant evening with passed hors d'oeuvre, flowers and chocolates for the ladies, boutonnieres for the men, a four-course dinner, special desserts and a live band for dancing the winter blues away.

There are three ways to participate. Become a Platinum Sponsor for \$875, you will have a reserved table for eight. Become a Gold Sponsor for \$375, with this you will receive dinner for two and the same recognition. Or buy tickets for \$75 per person. For our Y.E.A. members, tickets are \$60.

As always, your sponsorship will be listed in the dinner program and dance flyers, as well as being listed in a full-page advertisement in the R.E.S. monthly publication. You will certainly be recognized by your peers as an ASHRAE supporter.

An invoice is attached for your convenience. We thank you for your support and look forward to sharing this fantastic evening with you!

P.S. The Strathallan has given us a special room rate of \$162! Book your room and spend the night. Make Valentines extra special.

Very truly yours,

Jody McGarry

Valentine Dance Committee

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

A N I N T E R N A T I O N A L O R G A N I Z A T I O N



Invoice

Advertising for February 2019 Promotion

(Check One) Gold-Level Sponsor: \$375 Platinum-Level Sponsor: \$875

Please make check payable to **ROCHESTER CHAPTER ASHRAE** and mail to:

Rochester Chapter ASHRAE
c/o ABR Wholesalers, Inc.
ATTN: Jody McGarry
510 North Goodman Street
Rochester, NY 14609

Commitment

We would like to support the Rochester ASHRAE February 2019 Promotion and agree to fulfill our commitment.

Company Name_____

Signed by_____

Date signed_____

Please return your check or commitment no later than January 22, 2019 to ABR Wholesalers, Inc. Thank you for your support.

ASHRAE[®]

Bring the family!!!

PRESENTS THE SECOND ANNUAL ASHRAE SNOW DAY...



FEBRUARY 22nd 2019 9:00 AM TO 5:00 PM

WHO: ALL AREA SKIERS, SNOWBOARDERS, AND ASHRAE SUPPORTERS

WHAT: AFTERNOON ON THE SLOPES TO NETWORK OVER SNOW, FOOD, AND DRINKS

WHERE: HUNT HOLLOW 7532 COUNTY RD 36 NAPLES, NY 14512

COST: \$ 30 LIFT TICKET, \$ 15 SKI RENTAL, \$ 20 SNOWBOARD RENTAL, \$ 10 SNOWSHOE RENTAL

**RSVP: GEORGE HERMAN
1919 EAST MAIN STREET
ROCHESTER, NY 14609
585-455-7432
GEORGE@HERMANHVAC.COM**





MONDAY, MAY 20, 2019
 ASHRAE Picnic / Golf Tournament
 To be held at
Ravenwood Golf Course

Reservation Deadline is... May 13th, 2019

 RAVENWOOD GOLF CLUB	
<p align="center">Ravenwood Golf Course 929 Lynaugh Road Victor, NY 14564 Golf Registration 9:30 – 10:45 am Juice, Scones and Coffee Served 11:00 am - Shotgun Start</p>	<p align="center"><u>Picnic: 4:00 PM-7:30 PM</u> Cocktails & Hors d'oeuvres 4:00-5:30 PM Dinner: 5:30 PM – 7:30 PM Dinner Catered By: Dinosaur Bar B Que at Ravenwood Golf Club</p> 

**Four Man Scramble and
Optional Skins Game**

Golf includes:

- Golf
- Cart
- Driving Range
- Prizes
- Beer & food at the turn

NO TICKETS WILL BE SOLD OR DISTRIBUTED AT THE DOOR!

TICKETS WILL BE MAILED TO YOU OR CAN BE PICKED UP AT THE R.F. PECK CO., INC.

*Please include check and make payable to:
 "ASHRAE – Rochester Chapter"*

Return this form....

Mail prior to May 13th, 2019 to:

Attention: Kacie Hoffman

R.F. Peck Co., Inc.

889 Atlantic Avenue

Rochester, New York 14609

Any questions, call (585) 697-0839 ext. 105

Email: khoffman@rfpeck.com

Address where you would like your picnic tickets sent to:

Company: _____

Contact Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: (Work) _____ (Home) _____

Ticket Request Form

Event	Fee Amount Each	# Attending	Total
Golf	\$95.00		\$
Picnic	\$55.00		\$
OR:			
Golf and Picnic (SAVE \$10.00)	\$140.00		\$
Total amount enclosed:			\$
Golfer #1	Golfer #2	Golfer #3	Golfer #4
Golfer #5	Golfer #6	Golfer #7	Golfer #8



2019 ASHRAE PICNIC SPONSORSHIP FORM

Monday May 20, 2019

		
<p style="text-align: center;">Ravenwood Golf Course 929 Lynaugh Road Victor, NY 14564 11:00 AM – 4:00 PM - Golf 4:00 PM - 7:30 PM - Picnic</p>	<p style="text-align: center;"><u>Picnic: 4:00 PM-7:30 PM</u> Cocktails & Hors d’oeuvres 4:00-5:30 PM Dinner: 5:30 PM – 7:30 PM <i>Dinner Catered By:</i> Dinosaur Bar B Que at Ravenwood Golf Club</p> 	<p style="text-align: center;">Thank you in advanced for supporting this long standing ASHRAE Rochester Chapter tradition.</p>

Please include check (on notes put what sponsorship you made) and make payable to: ASHRAE Rochester Chapter

Mail to:
Attention: Jim Browe
RF Peck Company, Inc.
889 Atlantic Ave.
Rochester, NY 14609

Any questions, call Jim at (585) 697-0836 ext. 101
Email: jbrowe@rfpeck.com

Please fill out so we can correctly recognize you or your company:

Company: _____
OR
Individual Name: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: (Work) _____ (Home) _____

Sponsorship Form

Sponsorship	X for Sponsorship	Sponsorship Amount
Major Door Prize Sponsor – Gift/Item or Cash Donation- \$200 or more.		
Gold - \$250.00 - Hole Sponsorship and Recognition at Picnic		\$250.00
Silver - \$150.00 - Hole Sponsorship		\$150.00
Bronze - \$100.00 - Recognition at Picnic		\$100.00
Prize Sponsor - \$175.00 - Longest Drive		\$175.00
Prize Sponsor - \$175.00 - Closest to Pin		\$175.00
Total Check Amount:		



FOR IMMEDIATE RELEASE

MEDIA CONTACT:

Allen Haynes

404-446-1677

ahaynes@duffey.com

ASHRAE Presents Awards and Honors at 2019 Winter Conference

ATLANTA (Jan. 13, 2019) – ASHRAE recognized the outstanding achievements and contributions of members to furthering energy efficiency in the heating, ventilation, air conditioning and refrigeration industry during the 2019 Winter Conference. A list of the awards and their recipients are below.

Fellow ASHRAE

Fellow ASHRAE is a membership grade that recognizes members who have attained distinction and made substantial contributions in HVAC&R such as education, research, engineering design and consultation, publications and mentoring. The Society elevated 17 members to the grade of Fellow:

- Fred S. Bauman, P.E., Life Member, project scientist, Center for the Built Environment, University of California, Berkeley, Calif.
- Alexander S. Butkus, P.E., Life Member, retired president and senior principal, Grumman/Butkus Associates, Evanston, Ill.
- Charles Eley, P.E., BEMP, architect/engineer, Eley Consulting, San Francisco, Calif.
- Kenneth M. Elovitz, P.E., engineer, Energy Economics, Foxboro, Mass., and, adjunct teaching professor, Worcester Polytechnic Institute, Worcester, Mass.
- Paul W. Francisco, senior research engineer, Indoor Climate Research & Training Group, Applied Research Institute, University of Illinois at Urbana-Champaign, Champaign, Ill.
- Hwataik Han, Ph.D., P.E., professor, Kookmin University, Seoul, South Korea.
- Yunho Hwang, research professor, University of Maryland, College Park, Md.
- Arthur A. Irwin, Halifax, Nova Scotia, Canada.
- James Kamm, Ph.D., P.E., Life Member ASHRAE, professor, University of Toledo, Toledo, Ohio.
- Kathleen Owen, owner and air pollution control engineer, Owen Air Filtration Consulting LLC, Cary, N.C.

- Gary Phetteplace, Ph.D., P.E., Life Member, president, GWA Research LLC, Lyme, N.H.
- Elbert (Bert) Phillips, P.Eng., Life Member, president, UNIES Ltd., Winnipeg, Manitoba, Canada.
- Michael A. Pouchak, P.E., systems architect, Honeywell, Golden Valley, Minn.
- Dharam V. Punwani, president, Avalon Consulting, Inc., Naperville, Ill.
- M. Ginger Scoggins, P.E., president, Engineered Designs, Inc., Cary, N.C.
- James R. Tauby, P.E., chief executive engineer, Mason Industries Inc., Hauppauge, N.Y.
- Philip C.H. YU, Ph.D., C.Eng., environmental and applications engineering director, Trane Pacific, Hong Kong.

The ASHRAE Technology Awards

The ASHRAE Technology Awards recognize outstanding achievements by ASHRAE members who have successfully applied innovative building designs. Their designs incorporate ASHRAE standards for effective energy management and indoor air quality and serve to communicate innovative systems design. Winning projects are selected from entries earning regional awards. First place recipients are:

- Dwight Schumm and Timothy Lentz, P.E, design engineers, new commercial buildings category, Indian Creek Nature Center Amazing Space, Cedar Rapids, Iowa. The building is owned by Indian Creek Nature Center. The building representative is John Myers.
- Hiroki Kawakami, Hiroaki Takai, Kazuki Wada and Koji Tanaka, P.Eng., existing commercial buildings category, TAKENAKA Corporation Higashikanto Branch Office Renovation, Chiba City, Chiba, Japan. The building representative is Hiroshi Suzuki.
- John E. Tsingas and David S. Eldridge, Jr., P.E., ebcx commercial buildings category, 801 Grand, Des Moines, Iowa. The building is owned by Principal Financial Group.
- Michael P. Sherren, P.E., new educational facilities category, Wilde Lake Middle School, Columbia, Md. The building is owned by Howard County Public School System.
- Morgan B. Heater, existing educational facilities category, Westside School, Seattle, Wash. The building is owned by Westside School.
- David J. Meyer, P.E., Jaimeeganleong Wilson, Ph.D., P.E., BEMP, BEAP, Eric J. LePore, P.E. and Alfred Rodgers, CPMP, new other institutional buildings category, Koffman Southern Tier Incubator, Binghamton, N.Y. The building is owned by Koffman Southern Tier Incubator.
- Sarah E. Berseth and Scott A. Lichty, P.E., new public assembly category, Ramsey County Library, Shoreview, Minnesota. The building is owned by Ramsey County Property Management.
- Dominic Desjardins, Eng., Maurice Landry, Eng. and André-Benoît Allard, existing public assembly category, Montréal Olympic Park's Integrated Performance Contracting Project, Montréal, Québec, Canada. The building is owned by Montréal Olympic Park.

Student Design Competition

The Student Design Competition focused on a new 70,000 square foot (6,500 square meter), four-story mixed use complex north of Istanbul, Turkey.

First place in the HVAC Design Calculations category was awarded to the University of Nebraska – Lincoln. Team members are Jack Buckley, Madeline Sampsel, Austin Seagren and Christopher Wozny.

First place in the HVAC System Selection category was awarded to Kansas State University. Team members are Kevin J. Clark, Madison Hopfinger, Evan Reese, Whitney Luck and Andres Saldivar.

First place in the category of Integrated Sustainable Building Design was awarded to an international collaborative team from The Pennsylvania State University (PSU) and Technical University of Denmark (DTU). PSU team members are William McCann, Salvador Ordorica, Ashutosh Kumar Ojha, Marie Rottschaefer and Siddharth Swaminathan. The DTU team members are Vasileios Filis, Myrto Ananida, Oluwatobi Gbadebo and Alexandre Mathieu.

The Setty Family Foundation Applied Engineering Challenge requires students to plan, develop and enact solutions to sustainability issues in their local or regional areas.

The first place student team from the Bandung Institute of Technology designed a temporary shelter for use by governments, municipalities, and humanitarian agencies in an Eastern European location. Team members are Iik Wahyu Anggara, Katon Vembriarto Widayaswara, Yoga Hutomo Putra, Mohammad Ilham Akbar and Fahmi Rizaldi.

E.K. Campbell Award of Merit

William P. Bahnfleth, Ph.D., P.E., Presidential Fellow Member ASHRAE, received the E.K. Campbell Award of Merit. The award honors an individual for outstanding service and achievement in teaching and is presented by the Life Members Club. Bahnfleth is professor architectural engineering, The Pennsylvania State University, University Park, Penn.

John F. James International Award

Stephen Gill, C.Eng., received the John F. James International Award. The award recognizes a member who has done the most to enhance the Society's international presence. Gill is president, Stephen Gill Associates, Nottingham, UK.

ASHRAE Award for Distinguished Public Service

Patricia T. Graef, P.E., Life Member, Fellow ASHRAE, received the ASHRAE Award for Distinguished Public Service. The award recognizes members who have performed outstanding public service in their community and, in doing so, have helped to improve the public image of the engineer. Graef is senior engineer, Munters Corporation, Fort Myers, Fla.

Honorary Member

William Henry Gates, III, was elected as an Honorary Member of ASHRAE. Honorary Members, elected by the Board of Directors, are defined as notable persons of preeminent professional distinction. Gates is founder, Microsoft Corporation, Medina, Wash.

ASHRAE Hall of Fame

George B. Hightower, P.E., was inducted into the ASHRAE Hall of Fame. The ASHRAE Hall of Fame honors deceased members of the Society who have made milestone contributions to the growth of ASHRAE-related technology or the development of ASHRAE as a society.

About ASHRAE

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 56,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today. For more information, visit ashrae.org and connect on [LinkedIn](#), [Facebook](#), [Twitter](#) and [YouTube](#).

###

February Trainings

HVAC Design Trainings

HVAC Design: Level I – Essentials (MENA)

When: February 3–5, 2019, 8:00 am to 5:00 pm

Location: Dubai, UAE

Cost: \$948 USD (\$757 USD ASHRAE Member)

Instructors: Hassan Younes, Member ASHRAE, BEAP, BEMP, HBDP, CPMP, HFDP, OPMP and Samir Traboulsi, Ph.D., P.Eng, Fellow/Life Member ASHRAE

HVAC Design: Level II – Applications

When: February 6–7, 2019, 8:00 am to 5:00 pm

Location: Dubai, UAE

Cost: \$641 USD (\$524 USD ASHRAE Member)

Instructors: Hassan Younes, Member ASHRAE, BEAP, BEMP, HBDP, CPMP, HFDP, OPMP and Samir Traboulsi, Ph.D., P.Eng, Fellow/Life Member ASHRAE

Online Courses

Save Over 35% Using Appendix G of ASHRAE Standard 90.1-2016

When: February 12, 2019, 1:00 pm to 4:00 pm, EDT

Cost: \$284 USD (\$219 USD ASHRAE Member)

Instructors: McHenry Wallace, P.E., Member ASHRAE, LEED® AP and Joseph Deringer, AIA, Member ASHRAE, LEED® AP

Humidity Control I: Design Tips and Traps

When: February 26, 2019, 1:00 pm to 4:00 pm, EDT

Cost: \$284 USD (\$219 USD ASHRAE Member)

Instructor: Lew Harriman, Fellow ASHRAE

<https://www.ashrae.org/professional-development/all-instructor-led-training>