

ASHRAE Rochester



VOLUME 13, ISSUE 3

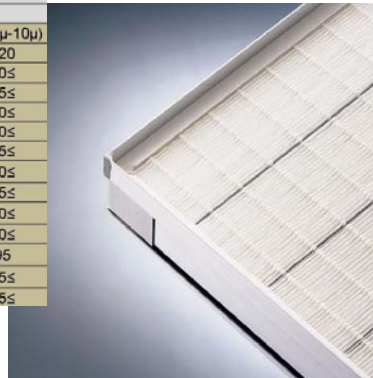
NOVEMBER, 2018

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November ASHRAE Meeting

ASHRAE 52.2/MERV Chart			
Average Removal %			
MERV	E1 (0.3µ-1µ)	E2 (1µ-3µ)	E3 (3µ-10µ)
4	not measured	not measured	<20
5	not measured	not measured	20≤
6	not measured	not measured	35≤
7	not measured	not measured	50≤
8	not measured	20≤	70≤
9	not measured	35≤	75≤
10	not measured	50≤E ₂ <65	80≤
11	20≤	65≤	85≤
12	35≤	65≤E ₂ <80	90≤
13	50≤	85≤	90≤
14	75≤E ₁ <85	90≤	95
15	85≤E ₁ <95	90≤	95≤
16	95≤	95≤	95≤



Topic: Economic and Performance Considerations When Selecting Air Filters and The New ISO Rating System

Presenter: Charlie Seyffer, Camfil Clean Air Solutions

When: Monday, November 12th, 2018 at 12pm

Where: City Grill, 384 East Avenue in Rochester

Cost: \$25.00

Please RSVP by noon Friday, November 9th 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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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
Monday, 11/12/2018	Filter Energy <i>Presented By: CamfilFarr</i>	History Review	City Grill @ 12:00 PM
		PDH Approved	
Monday, 12/10/2018	Sustainability & Resilience-Examples of Community and Campus Energy Assessments <i>Presented By: Chonghui Liu</i>	Refrigeration Night	City Grill @ 12:00 PM
		Resource Promotion PDH Pending	
Monday, 1/14/2019	----- <i>Presented By:</i>	PDH Pending	City Grill @ 12:00 PM
Friday, 2/8	62st Annual ASHRAE Valentines Dinner Dance	---	TBD
Monday, 2/11/2019	----- <i>Presented By:</i>	Membership Promotion	City Grill @ 12:00 PM
		PDH Pending	
Monday, 3/11/2019	Overview of Risk Management for Infection Control During Health Care Construction <i>Presented By: Marlene Linders</i>	Resource Promotion	City Grill @ 12:00 PM
		PDH Pending	
Monday, 4/8/2019	Refrigeration night - presentation and tour TBD	Refrigeration Night	TBD
		PDH Pending	
Monday, 5/20/2019 <i>(subject to change)</i>	Annual Picnic / Golf Outing at Ravenwood	---	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 November Message

November Newsletter 2018
President's Message

Thanks to everyone that made it the annual Clambake in September. This was a great social networking event to kick off the year in what was left of summer weather. A special thanks to the Rochester EV Accelerator for promoting the benefits of electric vehicles, in a fun way, with EV test drives. Also, thank you to Carolyn Levine for her time and efforts for the main presentation!

Our November meeting will be on 11/12, at City Grill at noon. Camfil Farr will be presenting on the energy use of filters in HVAC systems, and the importance of proper selection for energy savings opportunities.

Please continue to check out our website at <http://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, 2018-2019 President

Paul Kenna, PE
2018-2019 President
Rochester Chapter

November Meeting Info

Please mark your calendar and join us for the next ASHRAE meeting on **Monday, November 12th**!

Date: Monday, November 12, 2018
 Time: 12:00 PM Lunch Buffet... Presentation to start approx. 12:30pm
 Speakers: Charlie Seyffer - Camfil Clean Air Solutions
 Topics: Economic and Performance Considerations When Selecting Air Filters and The New ISO Rating System
 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, November 9th 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

Highlights from October ASHRAE Meeting

Alan Niles, from WaterFurnace Corporation, led a talk on Net Energy Water Loops—A clear path to net zero energy buildings on Monday, October 15th at the City Grill.





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.

MECHANICAL/HVAC ENGINEER

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.
- Must have current HVAC design experience (experience and/or interest in plumbing and fire protection design is highly desirable)
- Self-starter and highly motivated to progress in career path with a growing firm.
- Effective time-management, written and oral communication, analytical, and interpersonal skills.
- Ability to provide value-oriented design suggestions, review drawings and documents to assure compliance with company design & production standards.
- Experience in contract document preparation; ability to read construction plans and specifications and general knowledge of construction administration.

PAOE

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

ROCHESTER ▼

2018-2019 ▼

Expanded

[Achievements](#)

▶ Chapter Operations	Par: 1200	Min Points: 600	Total Points: 390
▶ 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: 0
▶ Historical	Par: 300	Min Points: 100	Total Points: 155
▶ Membership Promotion	Par: 800	Min Points: 500	Total Points: 350
▶ RP	Par: 1050	Min Points: 800	Total Points: 0
▶ Student Activities	Par: 500	Min Points: 300	Total Points: 0

Committee Updates

Technology Awards—Jeff Wiedrick, CTTC Chair for Rochester, announced that the team at Pathfinder Engineers has received **first place** in the 2018-2019 tech awards. The team consisted of David Meyer, Jaimee Wilson, Eric LePore and Al Rodgers for the Koffman Southern Tier Incubator project. Daniel Mori is the Owner Representative and Charles Bertuch is the CTTC Chair for Region I. The award was in Category II—Other Institutional Buildings. Congratulations to Pathfinder Engineers!

Like us on Facebook!

Visit our new Facebook page by searching for “ASHARE 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.



WIA – Rochester Chapter Women in ASHRAE

Upcoming Networking Events

- **NAWIC**

Learn about Habitat for Humanity and what it means to be a part of a Women's Build.

Where: Johnson Controls Office – 90 Goodway Drive
Rochester NY 14623
(use "Employee Only" entrance)

When: November 7th - 5:30 – Networking, 6:00 – Dinner & Meeting

Habitat has partnered with Kelly's Fruit Farm and every pie sold they will donate to the NAWIC team page. Help support the women's build by having pie!

<https://give.rochesterhabitat.org/teams/9932-nawic-314>

- **WiA Book Club @ Erdman Anthony *NEW DATE**

Tuesday, November 13th from Noon-1PM

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: 10% Happier by Dan Harris

- **WiA meeting with Marlene Linders @ CityGrill**

Monday, March 11th from 11:00AM-12 Noon

Women-in-ASHRAE will be sponsoring a Female DL speaker at the March 2019 ASHRAE-Rochester chapter meeting this year. Marlene Linders will be traveling from Florida to visit our chapter to present on "Overview of Risk Management for Infection Control during Healthcare Construction". We have requested an extra hour with Marlene before the lunch meeting to discuss Marlene's career path and her insights as a leading Woman-in-ASHRAE. All members of ASHRAE are invited to attend.

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

jwilson@pathfinder-ea.com



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

The Benefits of an ASHRAE Certification

SHINE IN A RISING FIELD

Certification validates critical job knowledge, skills and abilities in a given practice area.

GAIN A COMPETITIVE EDGE

ASHRAE certifications are recognized by over 35 national, state and municipal entities.

STAND OUT

Use the ASHRAE Certified logo and designation—e.g. Curtis Smith, BEAP, BEMP—in email signatures, professional networking and business cards to enhance your reputation.

ASHRAE WILL SING YOUR SUCCESS

Certificants and their employers are listed on the website and in ASHRAE *eSociety*.



5 Easy Steps to Earn and Maintain an ASHRAE Certification

1. Read the *Candidate Guidebook*

Visit www.ashrae.org/certification and download the guidebook for the program in which you are interested.

2. Complete the Application

Complete the online application at www.ashrae.org/certification. Membership in ASHRAE is not a requirement for certification.

3. Schedule an Examination

BCxP, BEAP, BEMP, HBDP, HFDP and OPMP examinations are offered at over 300 conveniently located computer-based testing centers worldwide. Candidates may schedule an examination appointment online or by telephone.

4. Review Available Resources

The *Candidate Guidebook* for a program identifies available resources, including practice exams, that may help candidates gain an understanding of the body of knowledge that the examination tests. Purchase of books or course registrations is not a prerequisite to taking any ASHRAE certification examination.

5. Renew the Certification

Each certification is renewable every three years. To retain certification, each certification holder must earn 45* Professional Development Hours (PDHs) during the three year period following initial certification or the last renewal.

*BCxP requires 50 PDHs.

Schedule an exam at one of over **300 testing centers** worldwide
TODAY!

To learn more or apply, please go to
www.ashrae.org/certification

ASHRAE Certification

Already more than 2,500 certifications earned in six key built-environment fields.

Advance Your Career Today



Validation. Pride. Recognition.

"Because of the high level of expertise, professionalism and ethics demonstrated by ASHRAE, achieving certification under their established requirements implies one of the highest levels of competence and knowledge available in the industry."

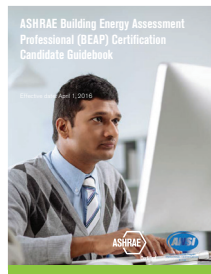
Jeffrey G Ross-Bain, BEMP, Ross-Bain Green Building, LLC



ASHRAE, the standard setter for sustainable building performance and system design and operation, validates through certification the critical knowledge, skills and abilities of professionals in six key, built-environment fields.

Recognized by over 35 national, state and local government bodies – and with over 2,500 certifications earned – ASHRAE certifications increasingly have become the must-have credential for built-environment professionals.

Building Energy Assessment Professional (BEAP)

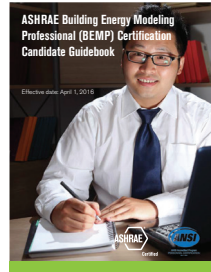


The BEAP certification, recognized by the U.S. Department of Energy (DOE) as meeting the Better Buildings Workforce Guidelines (BBWG), validates competency to *assess commercial building systems and site conditions, analyze and evaluate equipment and energy usage, and recommend strategies to optimize building resource utilization.*

The BEAP certification is integral to ASHRAE's Building Energy Quotient (BuildingEQ) program, as is its BEMP certification.

Together, the programs provide a valuable toolkit when it comes to the evaluation and reduction of building energy use. Two separate Workbooks, As Designed and In Operation, are part of the BuildingEQ program. Submitting both of these Workbooks can earn an As Designed and In Operation building rating. Only those certified as BEAPs, or Professional Engineers licensed in the jurisdiction where a BuildingEQ project is located, may submit the In Operation Workbook. Additionally, only BEAPs (and BEMPs whose certification relates to the As Designed Workbook) may display the BuildingEQ Certified Provider logo with descriptions of their services.

Building Energy Modeling Professional (BEMP)



The BEMP certification validates competency to *evaluate, select, implement, calibrate and interpret the results of energy modeling software when applied to new and existing building and systems energy performance.*

The BEMP certification complements ASHRAE's Building Energy Quotient (BuildingEQ) program by helping to ensure that only qualified practitioners can submit As Designed Workbooks to receive building ratings from ASHRAE. Only those certified as BEMPs, and Professional Engineers licensed in the jurisdiction where a BuildingEQ project is located, may submit the As Designed Workbooks to ASHRAE. Like BEAPs who may submit In Operation BuildingEQ Workbooks, BEMPs may display the BuildingEQ Certified Provider logo with descriptions of their services.

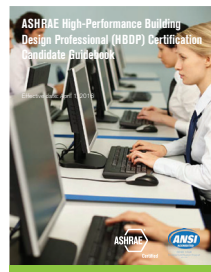
Building Commissioning Professional (BCxP)



The BCxP certification, recognized by the U.S. Department of Energy (DOE) as meeting the Better Buildings Workforce Guidelines (BBWG), validates competency to *lead, plan, coordinate and manage a commissioning team to implement commissioning processes in new and existing buildings.*

Many building owners look for ways to lower energy bills, reduce change orders during construction, avoid premature equipment replacement costs, and create safer and healthier buildings. Building commissioning measures and tunes up performance of existing buildings and ensures that new buildings begin their lifecycle at optimal productivity.

High-Performance Building Design Professional (HBDP)



The HBDP certification validates competency to *design and integrate sustainable HVAC&R systems into high performing buildings.*

Today's building design market requires use of ground-breaking technologies in new and existing structures to meet the need of building owners.

Healthcare Facility Design Professional (HFDP)



The HFDP certification validates competency to *incorporate standards, guidelines as well as unique healthcare facility requirements and design principles in HVAC system design.*

Growing numbers of aging medical facilities, advances in technology, shifting environmental requirements and an increasingly older population have created a critical need for expansion and renovation of healthcare facilities.

Operations & Performance Management Professional (OPMP)



The OPMP certification validates competency to *manage facility operations and maintenance to achieve building performance goals, including those related to indoor environmental quality, health and safety.*

Today's complex buildings can fade from green to gray when building operators don't realize the full potential of the systems they manage. Staying current with the latest facility operation strategies and technologies can reduce energy use in buildings by 10% to 40%.

Value of Earning Your ASHRAE Certification

In a recent "Value of Certification" survey, this is what ASHRAE-certified professionals had to say:

- ASHRAE Certification validates my level of specialized knowledge and ability (89%).
- ASHRAE Certification helps differentiate me from my peers (82%).
- In my field, ASHRAE Certification has provided me with greater professional recognition (73%).



Rochester Chapter - ASHRAE
 Board of Governors Meeting
 October 14, 2018 7:30 AM - 8:30 PM
 PRES Energy, One Grove Street, Pittsford, NY

Meeting Minutes

X	Paul Kenna	President / CRC Alternate
X	Tom Streber	President Elect / Program
X	Mike Benedict	Treasurer
	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
X	Jeff Wiedrick	Board of Gov. (2) & Chapter Technology Transfer Chair (CTTC)
	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)
	Tim Duprey	Attendance Co-Chair
	Jake Hall	Historian Chair
X	Matt Devlin	Research Promotion Co-Chair (RP)
	Zachary Hess	Research Promotion Co-Chair (RP)
	Rob Hudson	Student Activities Chair (SA)
X	Al Rodgers	Awards & Recognition Chair
	Bill Murray	Education
	Mark Kukla	Publicity
	Jim Browe	Picnic/Golf Chair
	Pete Bukowski	Buyers Guide
	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

- | | |
|--|---------------|
| 1. Call to Order | Paul Kenna |
| 2. Roll Call | Tom Streber |
| 3. Review and Approval of Previous Meeting Minutes | All |
| • Approved - Jeff Wiedrick and Mike Benedict | |
| 4. Treasurer Report | Mike Benedict |
| • 2018-2019 No Changes to budget to report | |

5. President Elect/Program Tom Streber
- Revised Schedule - November topic has been added
 - Evaluation Forms
 - Golf Trophy to be presented at October's meeting.
 - All other awards handed out at Nov. meeting.
6. Attendance Brett Fryover
Tim Duprey
- Clambake Reservation Summary
 - i. 88 reservations, 99 attendees
 - ii. 159 doz clams
 - Award for perfect attendance in 2017-18
 - Approval of \$50 gift card - Approved
 - No change to payment system for meetings.
 - 73 confirmed guests for Oct. meeting.
7. CTTC Report Jeff Wiedrick
- Project submission by April 1, 2019
 - Submitted project from 2018 was passed from Regional to Society
8. Membership Report George Herman
- Current members
 - Nothing to report
9. Student Activities Report Rob Hudson
- Student chapter
 - Nothing to report
10. Education Report Bill Murray
- Scholarship criteria from 2018 was accepted.
 - Original amounts for Charles Lynch Award - \$1,000, \$500, 300 to RIT and \$300 to MCC students.
 - i. Proposed \$2,100 to \$2,500 for one student.
Vote at Nov. meeting
11. YEA Report Matt Kremers
- 2017-18 Events - No Report
12. Awards & Recognition Report Al Rodgers
- Awards from CRC to be presented at Nov Meeting?
 - BOG Members should update online bio's.
 - Need Member-of-the-Year nominated by April.
 - President may want to consider adding awards.

13. Resource Promotion Report Zac Hess / Matt Devlin
- Current vs. Goal
 - Full Circle Contributions due 11/15.
 - i. Added POE points awarded if donation is identified for scholarship.
 - Matt to talk to Jody about Grey Metal donation.
 - Donor Recognition Boards.
14. Refrigeration Report Mike Nohle / Sam S.
- Refrigeration Meeting
 - Suggestions - Layout and size system with oil return and compressor modulation considerations.
15. Grassroots Government Advocacy Report Marjani Wilson
- MBO submitted by Marjani.
 - Marjani needs admin rights for entering POE points.
 - Planned activity?
 - POE points eligible for Grass Roots training of board members.
16. Women in ASHRAE Jaimee
- WiA book club meeting on 11/4 at Erdman's office Noon-1:00
 - Details of all events on Google Drive.
17. Newsletter Report Scott Edwards
- RES deadline 10/19 - Reminder
18. Buyers Guide Pete Bukowski
- To be all electronic.
19. Historian Report Jake Hall
- Planned activity - No Report
20. Publicity Report Mark Kukla
- Send any pictures to Mark for publication
21. Website Report Steve Dear/Kevin Wind
- Coordinate updates with Kevin
22. Nominating Report Bill Clark
- Nothing to report.
 - Bank statements submitted to accountant.
 - Wells Fargo to be submitted by Bill Clark.
23. Valentines Dinner Dance Report Jody McGarry
- Schedule & Venue
24. Golf/Picnic Report Jim Browe
25. Presidential Award of Excellence (PAOE)
26. New Business:
- 2017-18 Taxes - will be filed this year
 - Paul Kenna to generate a list of what each chair member and officer is responsible for.

27. Old Business:

- 2018-19 Audit Committee and Date
 - i. Jeff Close, Jeff Bidell and Steve Maybeck.
- Removal of Jeff Ellis from PayPal.
- 2017-18 Audit - Paul K to send resolution for approval

28. Set next BOG Meeting date / time / place.

- Friday, November 9th, 7:30-8:30 am, PRES Office

29. Adjourn - 8:35 a.m.

2019 Winter Conference & AHR Expo

The [2019 ASHRAE Winter Conference & AHR Expo](#) taking place in Atlanta this January. The ASHRAE Winter Conference takes place Jan. 12-16 at the Omni Atlanta Hotel at CNN Center and the neighboring Georgia World Congress Center, where the AHR Expo is taking place Jan. 14-16. Together, the Winter Conference and AHR Expo provide you and your colleagues with ring-side seats to the latest technological developments, educational offerings, and networking opportunities.

The Conference Technical Program offers over 100 sessions within 8 tracks:

Track 1. Systems and Equipment

Track 2. HVAC&R Fundamentals and Applications

Track 3. Refrigeration

Track 4. Construction, Operation, and Maintenance of High Performance Systems

Track 5. Common System Issues and Misapplications.

Track 6. The Convergence of Comfort, Indoor Air Quality, and Energy Efficiency

Track 7. Building Integrated Renewables and Natural Systems

Track 8. The Engineer's Role in Architecture

The AHR Expo will host more than 2,000 exhibitors and 65,000 industry professionals. When you register for the ASHRAE Conference, your ASHRAE badge will give you access to the AHR Expo.

Additional conference activities include technical and general tours of Atlanta, social events like the Welcome Party and Members Night Out, and of course ASHRAE Learning Institute Courses, Certification exams, and more.





2019 ASHRAE WINTER CONFERENCE
JANUARY 12–16 // **AHR EXPO** JANUARY 14–16



ashrae.org/atlanta



The 2019 ASHRAE Winter Conference & AHR Expo will take place in Atlanta this January, at the Omni CNN Center and the Georgia World Congress Center in downtown Atlanta. Expect thousands of industry professionals, hundreds of learning opportunities, and a very short walk to the AHR Expo.

Technical Program

Available online in mid-September, the technical program is comprised of eight tracks, and offers 100+ technical sessions to choose from. The track focus areas include refrigeration, HVAC&R fundamentals and applications, systems and equipment, common system misapplications, and achieving high performance building operation after design. Others are aimed at moving building design, construction, and operation forward.

Registration

Just \$450 for first-time attending members, and \$25 for students (early bird rates end October 28). Additional registration types and fees are listed at ashrae.org/atlanta.

Social events, tours, and ALI courses can be added for additional fees during the registration process.

Registrant Type	Tech Program Sessions	Plenary Session	AHR Expo	Virtual Conference
Member/Non-member	✓	✓	✓	✓
First Time Attendee – Member/Non-member	✓	✓	✓	✓
One Day – Member/Non-member	day	✓	✓	✓
Speaker	✓	✓	✓	✓
Student	✓	✓	✓	
Student Branch Advisor	✓	✓	✓	
Spouse/Guest	✓	✓	✓	
Life Member	✓	✓	✓	✓

Learn More and Register at ashrae.org/atlanta

Social Events

Small and intimate or larger than life, the ASHRAE Winter Conference offers a gathering for everyone, conveniently located at the Omni CNN Center (except where noted below). Events can be included with registration for an additional fee.

The Welcome Party –
Fembank Museum

Young Engineers
in ASHRAE (YEA)
Hospitality Suite

Women in ASHRAE
Breakfast

Life Members'
Luncheon

President's Luncheon

Members' Night Out



Tours

From the College Football Hall of Fame to highlights from the Hunger Games, Atlanta is packed with experiences you don't want to miss while visiting. Tours can be included for an additional fee while registering for the conference.

Atlanta Movie Tour

All About Atlanta

Atlanta Heroes:
Jimmy Carter &
Martin Luther King, Jr.

College Football Hall
of Fame

Plenary Speaker

Kick off the ASHRAE Winter Conference with the opening Plenary session. ASHRAE award winners are recognized and updates on the Society will be presented.



Keynote Speaker, Grant Imahara

Former Host on Discovery's "Mythbusters" & Animatronics Engineering Expert

For almost a decade, Grant Imahara was one of the hosts of Discovery Channel's Mythbusters. Using a blend of science and fun, he put urban legends to the test, sometimes with explosive results. Grant tested hundreds of myths, and in the process, swam with sharks, hung from the skids of a helicopter, fired cheese out of a cannon into the San Francisco Bay, sliced a car in half using a rocket sled, destroyed so many cars he's stopped counting, and built many, many robots, all in the name of science.

Learn More and Register at ashrae.org/atlanta

Certification Exams

Saturday, January 12 and Wednesday, January 16



Apply by December 21 to sit for an ASHRAE Certification exam in one of these key fields:

Commissioning (BCxP) // Energy Assessment (BEAP) // Energy Modeling (BEMP) // Healthcare Facility Design (HFDP) // High-Performance Building Design (HPBD) // Building Operations (OPMP)

Conference Registrants can include the Certification application fee when registering. Applications are available at ashrae.org/certification.

ASHRAE Learning Institute



Full-Day Professional Development Seminars

\$415 ASHRAE Member | \$510 Nonmember

Saturday, January 12, 8:00 a.m. – 3:00 p.m.

- (60) Commercial Building Energy Audits
- (61) Effective Energy Management in New and Existing Buildings
- (62) Operations and Maintenance of High-Performance Buildings

Tuesday, January 15, 9:00 a.m. – 4:00 p.m.

- (75) **NEW!** Choosing the Right Energy Code for Your Project—IECC or ASHRAE 90.1-2016
- (76) Commissioning Process in New and Existing Buildings

Half-Day Short Courses

\$139 ASHRAE Member | \$184 Nonmember

Sunday, January 13, 3:30 p.m. – 6:30 p.m.

- (63) Advanced Designs for Net Zero Buildings
- (64) Air-to-Air Energy Recovery Applications: Best Practices
- (65) Latest in High-Performance Dedicated Outdoor Air Systems (DOAS)
- (66) Variable Refrigerant Flow Systems: Design and Applications

Monday, January 14, 2:45 p.m. – 5:45 p.m.

- (71) ASHRAE Guideline 0: The Commissioning Process
- (72) Design of Affordable and Efficient Ground-Source Heat Pumps Systems
- (73) Designing and Operating High-Performing Healthcare HVAC Systems
- (74) Humidity Control II: Real-World Problems and Solutions

Monday, January 14, 8:30 a.m. – 11:30 a.m.

- (67) Humidity Control I: Design Tips and Traps
- (6) **NEW!** Solar PV and Thermal System Analysis and Design
- (69) **NEW!** Thermal Energy Storage Systems for Air Conditioning
- (70) Understanding and Designing Chilled-Beam Systems

Tuesday, January 15, 9:00 a.m. – 12:00 p.m.

- (77) Avoiding IAQ Problems
- (78) **NEW!** How Smart, Efficient, Sustainable Systems Lead to Improved Resilience

Tuesday, January 15, 1:00 p.m. – 4:00 p.m.

- (79) High-Performance Building Design: Applications and Future Trends



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The **2019 Winter Conference Technical Program** is now available online. The ASHRAE 365 event website allows you to easily search through technical program sessions, and create your own schedule.