April ASHRAE Meeting

**Topic:** Refrigerant Piping and Accessories Sizing and Best Practices
Designing Systems with New Refrigerants

**Presenter:** Mike Nohle (Meier Supply) and Ivan Rydkin (Daikin)

**When:** Monday April 9th, 2018

**Where:** City Grill
384 East Ave, Rochester

**Cost:** $25.00

Please RSVP by noon Friday, April 6th to Bret Fryover
fryoverb@erdmananthony.com
Or
ASHRAE.Rochester@gmail.com

PDH Approved!

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**Buyer’s Guide**  
TBD
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.

Mission Statement

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

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

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

Vision Statement

Shaping Tomorrow’s Built Environment Today
President’s April Message

April Newsletter 2018
President’s Message

Our meeting in March was on “Energy Flow and Measurements in Hydronic Systems” presented by Onicon. Thanks to everyone who attended.

On Friday, February 23rd, 2018 the Rochester ASHRAE Chapter hosted it’s 1st Snow Day ski outing at Hunt Hollow. A special thanks to George Herman for putting together this great event. Also, thanks for all those who attended and contributed to the event.

The Engineering Symposium in Rochester is scheduled for April 24, 2018 at the Rochester Riverside Convention Center. This event will offer multiple seminars that could total (7) professional development hours. ASHRAE is sponsoring (3) seminars.

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.

Bill Clark, P.E., CEM
2017-2018 President
Rochester Chapter
April Meeting Info

Please consider joining us for this upcoming monthly meeting and/or please forward this e-mail to anyone you may think would be interested in attending or benefit from this presentation.

April ASHRAE Meeting  << PDH APPROVED!>>

Date: Monday, April 9th, 2018
Location: City Grill
Time: 12pm Lunch Buffet, presentation starts at approx. 12:30pm
Cost: $25.00
Speaker: Mike Nohle (Meier Supply) and Ivan Rydkin (Daikin-America)
Topic: Refrigerant Piping and Accessories Sizing and Best Practices
Designing Systems with New Refrigerants
Note: (1) PDH—Approved!

Remember, as an option, we have on-line payments available via PayPal. (no PayPal account required)

<< Pay for Meeting Registration online via PayPal >>
Use the following link: http://rochester.ashraechapters.org/meetings.html

Cash or check payment is still accepted at the door with your reservation.

Please RSVP no later than noon Friday April 6th to Bret Fryover
Phone: 585.563.5152 or e-Mail ... fryoverb@erdmananthony.com
Highlights from March

ASHRAE Meeting

Michael Rivers from Onicon presents “Energy Flow and Measurements in Hydronic Systems” at the City Grill on Monday March 12th.
Job Postings & Help Wanted

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, Bill Clark at (585) 303-0729 or by email william.clark@DayAutomation.com. This service is available to ASHRAE members for any local firm in our industry looking for knowledgeable persons in the HVAC&R industry.

Presidential Award Of Excellence

Chapter:
ROCHESTER

Fiscal Year:
2017-2018

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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.
Committee Updates

**YEA**

**YEA Tech Session 3/27/2018**
Thank you to Bill Clark for presenting to YEA on Temperature Controls. There was a good turnout for the second tech session of the year. Look forward to seeing more at the next!

![Image of a tech session](image)

**YEA Social Event - Radio Social 4/19/2018**
Please consider joining us April 19th from 6-8PM for bowling and fun at Radio Social. Lanes, shoes, and appetizers covered by ASHRAE. Please RSVP to Matt Kremers ([mkremers@mcsmms.com](mailto:mkremers@mcsmms.com)) by 4/6 so we can reserve enough lanes.

Address- 20 Carlson Rd in Rochester

Website- [https://radio-social.com/](https://radio-social.com/)
ASHRAE Snow Day:

On February 23rd the Rochester and CNY chapters hosted ASHRAE’s first Snow day at Hunt Hollow in Naples, New York. With 22 people in attendance, everyone was able to network and enjoy the slopes together. Both chapters plan to continue this event in the future and are excited to watch it grow.
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 ASHRAE xChange.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.
ASHRAE MEMBERSHIP APPLICATION. Please complete each applicable section. Prices valid from 7/01/2017 - 6/30/2018.

1. Contact Information. [ ] Mr. [ ] Miss [ ] Ms. [ ] Mrs. [ ] Dr. *Birthday (required) _______ / _______ / _______

Name ____________________________

(First) ____________________________ (Middle) ____________________________ (Last) ____________________________

Primary Address __________________
This is a [ ] Home [ ] Business

Company Name ______________________

Alternate Address __________________
This is a [ ] Home [ ] Business

Company Name ______________________

Address ____________________________

City __________________ State/Province ________

Zip/Postal ________ Country __________________

E-mail ____________________________

Telephone ____________ Cell ____________

Name/Chapter of referring member (if applicable): __________________

2. Member Grade.
For additional information on member grades and benefits see reverse or visit ashrae.org.

[ ] Member — $206 (must complete section 2a)
[ ] Associate Member — $206
[ ] Affiliate Member — $52 first year/$78 second/$103 third (new members, under 30)
[ ] Reinstall 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 __________________

Employer __________________ Location __________________ Dates of Employment __________________

Position/Title __________________

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- Draftsman
D- Associate U- Estimator
E- Owner W- Technician
F- Vice President X- Instructor
G- VP Eng./Chief Engineer Y- Student
K- Design Eng./Designer Z- Librarian
L- Project/Application Eng. ZZ- Other
O- Facility Eng./Mngr. P- R&D Eng.
R- Sales Engineer

Which best describes your firm? ________

11- Consulting Eng. 51- Manufacturer
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, 86- Student
Education 91- Other/Misc.
43- Utility

Which best describes your function? ________

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

4. Areas of HVAC&R Interest. Enter the code for your area of interest from the list below:
Code: __________________

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

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

Refrigeration S- Unitary Refrigeration T- Commercial_ref.
U- Industrial_ref. V- Process Refg.
W- Low Temp (<60°F) X- Refg. Components

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

[ ] IP (inch/pound units), print with PDF
[ ] SI (metric units), print with PDF
[ ] PDF only (IP & SI)

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

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

8. Payment. [ ] Visa [ ] MasterCard [ ] Amex [ ] Diner's Club [ ] Check/Money order**

Card # ____________________________ Expiration Date _______ / _______

(Month) (Year)

Total Amount: ____________ Signature __________________

CHECKS WILL BE ACCEPTED IN US AND CANADIAN FUNDS. CREDIT CARD PAYMENTS ACCEPTED IN US FUNDS ONLY
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.
ASHRAE Student Membership Application valid July 1, 2017 through June 30, 2018

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___________________________________________________________
   _________________________________________________________________
City __________________________________ State/Province________
Zip/Postal________ Country________________________________________
E-mail ____________________________________________________________
Phone: ____________________________________________________________
☐ I would like to receive occasional student updates via email.  I would like to participate in the ________________ASHRAE Chapter.

☐ 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 spon-
   sor. 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
## Meeting Minutes

| X  | Bill Clark         | President / CRC Alternate |
| X  | Paul Kenna         | President Elect / Program |
| X  | Tom Streber        | Treasurer                |
| X  | Mike Benedict      | Secretary                |
| X  | Jeff Close         | Immediate Past President & Nominating / CRC Delegate |
|    | Sam Scorson        | Board of Gov. (3) & Refrigeration Co-Chair |
|    | Steve Dear         | Board of Gov. (3) & Website Chair |
| X  | George Herman      | Board of Gov. (2) & Membership Promotion Chair (MP) |
| X  | Marjani Wilson     | Board of Gov. (1) & Grassroots Government Advocacy Co-Chair |
|    | Jeff Wiedrick      | Board of Gov. (1) & Chapter Technology Transfer Chair (CTTC) |
| X  | Matt Kremers       | Board of Gov. (1) & Young Engineers in ASHRAE Chair (YEA) |
|    | Bret Fryover       | Attendance Co-Chair      |
|    | Tim Duprey         | Attendance Co-Chair      |
|    | Jake Hall          | Historian Chair          |
|    | Scott Edwards      | Newsletter Editor        |
| X  | Matt Devlin        | Resource Promotion Chair (RP) |
| X  | Rob Hudson         | Student Activities Chair (SA) |
|    | Al Rodgers         | Awards & Recognition Chair |
| X  | Bill Murray        | Education                |
|    | Mark Kukla         | Publicity                |
|    | Jim Browe          | Picnic/Golf Chair        |
|    |                   | Buyers Guide             |
|    | Jody McGarry       | Valentine’s Dinner Dance  |
| X  | Mike Nohle         | Refrigeration Co-Chair   |
|    | Tom Burke          | Grassroots Government Advocacy Co-Chair |
|    | Jaimee Wilson      | Women in ASHRAE           |
|    | Michelle Sommerman | Women in ASHRAE           |
1. Call to Order  
   • 7:35  
   Bill Clark

2. Roll Call  
   Mike Benedict

3. Review and Approval of Previous Meeting Minutes  
   • Motion - Paul Kenna  
   • Second - Marjani Wilson  
   All

4. Treasurer  
   Tom Streber  
   • Current Statement Balances  
   • PayPal Account Updates

5. President Elect/Program  
   Paul Kenna  
   • Schedule  
     i. No refrigeration tour, April 9th will be lunch meeting  
     ii. Topic - Refrigeration pipe sizing  
   • Ravenwood is reserved, golf plans are proceeding  
   • Evaluation forms

6. Attendance  
   Bret Fryover  
   • Current reservations  
     i. Light so far for Monday  
     ii. Tim filling in for Bret

7. CTTC Report  
   Jeff Wiedrick  
   • Project submission by April 1, 2018  
   • Deadline fast approaching, get your submissions in!

8. Membership Report  
   George Herman  
   • Ski day a success  
     i. ~20 attendees members and family  
   • Current members  
     i. 282 total members

9. Student Activities Report  
   Rob Hudson  
   • Student chapter  
     i. Still no responses from RIT or MCC  
   • Engineers Week  
     i. Completed Fairport, Redcreek, Naples, SUNY Oswego  
     ii. Working on Canandaigua  
   • Ed Burns is working on setting up a meeting between ASHRAE members and MCC staff.

10. Education Report  
    Bill Murray  
    • Scholarship - RES can administer our scholarship starting 2018/19.  
      i. Any candidates for this year?  
      ii. For this school year, looking at student members, Paul going to contact MCC and RIT, as recommended by Jeff Bidell

11. YEA Report  
    Matt Kremers  
    • Social being planned.  
      i. April 19th  
      ii. Looking toward Radio Social
• YEA Tech session on controls planned for March 27th.
  i. Bill Clark to present

12. Awards & Recognition Report  Al Rodgers

13. Resource Promotion Report  Matt Devlin
  • Current vs. Goal
    i. 60%
    ii. Increase in goal of $1,000 from last year
  • Topic of total / combined sponsorship has come up in conversations

14. Refrigeration Report  Mike Nohle/Sam Scorsone
  • Could do a tour of Mike’s facility if we wanted something off-site
    i. On Atlantic Ave
    ii. Has a room for 40
  • April 9th lunch meeting on refrigerant line sizing

15. Grassroots Government Advocacy Report  Marjani Wilson/Tom Burke
  • Day on the Hill
    i. June 5th
    ii. Needs to provide a list of attendees, will work on a flyer to get volunteers

  • Committee submissions
  • Newsletter deadline
  • RES deadline

17. Buyers Guide  TBD
  • Pete Bukowski is interested
  • Move to business card ads for newsletter and website.
    i. Need demo of where to out the ads and start soliciting.

18. Historian Report  Jake Hall
  • Planned activity

19. Publicity Report  Mark Kukla

20. Website Report  Steve Dear/Kevin Wind
  • Coordinate updates with Kevin

  • Nominations for BOG and secretary are
    i. Scott Edwards - Secretary
    ii. Bret Fryover - BOG
    iii. Derek Day - BOG

22. Valentines Dinner Dance Report  Jody McGarry
  • Positive reviews
  • Working on finalizing financials

23. Golf/Picnic Report  Jim Browe
  • Ravenwood May 21st
24. Women in ASHRAE
   Jaimee Wilson/Michelle Sommerman
   • Would like to make sure they are connected with NAWIC (National Association of Women in Contracting)

25. Presidential Award of Excellence (PAOE)
   • Please review and update your PAOE points, go through entire list as some activities apply to multiple categories.
   • Bill will help coordinate with crossover points

26. New Business:
   • RES Gala Affiliate Sponsorship
   • Working on filling the table with ASHRAE reps

27. Old Business:
   • 2016-17 Audit and Audit Committee
   • Audit is complete - Paul to follow up on a few items

28. Set next BOG Meeting date / time / place.
   • Friday, April 6th @ 7:30 AM, Day Automation Office

29. Adjourn
   • 8:25 am
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 30 national, state and municipal entities.

DISTINGUISH YOURSELF
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.

LET ASHRAE PROMOTE YOUR ACHIEVEMENT
Certificants and their employers are listed on the website and in ASHRAE Insights.

ASHRAE has Certified More Than 2,300 Built Environment Professionals.

Are You Ready to Join Them?

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
BEAP, BEMP, CPMP, 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.

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

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

The Benefits of an ASHRAE Certification

*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 30 national, state and local government bodies and with over 2,300 certifications earned—ASHRAE certifications increasingly have become the must-have credential for built-environment professionals.

Building Energy Assessment Professional (BEAP)

The growing emphasis on energy consumption reduction and cost savings has highlighted the need for credible specialists who assess energy use in buildings. The BEAP certification validates competency to audit, assess and analyze residential, commercial and industrial building energy use and develop and implement recommendations.

The BEAP certification is integral to ASHRAE’s Building Energy Quotient (bEQ) 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 bEQ 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 bEQ project is located, may submit the As Designed Workbooks to ASHRAE. Like BEAPs who may submit its Operation bEQ Workbooks, BEMPs may display the bEQ Certified Provider logo with descriptions of their services. For more information about bEQ, visit www.buildingenergyquotient.org.

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 buildings and systems energy performance.

The BEMP certification complements ASHRAE’s Building Energy Quotient (bEQ) 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 bEQ project is located, may submit the As Designed Workbooks to ASHRAE. Like BEAPs who may submit its Operation bEQ Workbooks, BEMPs may display the bEQ Certified Provider logo with descriptions of their services. For more information about bEQ, visit www.buildingenergyquotient.org.

Commissioning Process Management Professional (CPMP)

The CPMP certification validates competency to develop and manage the whole building commissioning process.

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. 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, an ANSI accredited certification program, 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 and regulatory codes 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%.

Building Commissioning Professional (BCxP) Coming Soon!

The ASHRAE BCxP certification will validate competency to lead, plan, coordinate and manage a commissioning team to implement commissioning processes in new and existing buildings, against scheme requirements set forth in the Better Buildings Workforce Guidelines, with the goal of achieving Department of Energy (DOE) recognition of services provided by these certificants by the spring of 2017.

Application opens September 15, 2016 for the very first BCxP exam administration to be held February 1, 2017 at the ASHRAE Winter Conference in Las Vegas.

The NATIONAL INSTITUTE OF BUILDING SCIENCES is the developer, publisher of and holder of copyright in the Guidelines.
2018 ASHRAE PICNIC SPONSORSHIP FORM

Monday May 21, 2018

Ravenwood Golf Course
929 Lynaugh Road
Victor, NY 14564
11:00 AM – 4:00 PM - Golf
4:00 PM - 7:30 PM - Picnic

Thank you in advance for supporting this long standing ASHRAE Rochester Chapter tradition.

Ravenwood Golf Course
929 Lynaugh Road
Victor, NY 14564

Picnic: 4:00 PM-7:30 PM
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

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) _______________

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

Sponsorship Form

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<th>Sponsorship</th>
<th>X for Sponsorship</th>
<th>Sponsorship Amount</th>
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<td>Gold - $250.00 - Hole Sponsorship and Recognition at Picnic</td>
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MONDAY, MAY 21, 2018
ASHRAE Picnic / Golf Tournament
To be held at
Ravenwood Golf Course

Reservation Deadline is... May 14th, 2018

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

Picnic: 4:00 PM-7:30 PM
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

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.

Address where you would like your picnic tickets sent to:
Company: _________________________________________
Contact Name: ______________________________________
Address: ___________________________________________
City: ________________ State: _________ Zip: __________
Phone: (Work) _______________ (Home) _______________

Please include check and make payable to:
“ASHRAE – Rochester Chapter”

Return this form....
Mail prior to May 14th, 2018 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

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<td>Picnic</td>
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OR:

Golf and Picnic (SAVE $10.00) $140.00

Total amount enclosed: $
2018 Annual Engineering Symposium in Rochester

Earn up to 7 PDHs

sponsored by Rochester's Technical and Engineering Societies and RIT

Tuesday, April 24, 2018

Courses available in: Civil, Electrical, Lighting, Mechanical, HVAC, Plumbing...

Preliminary schedule.

NOTE NEW LOCATION: Rochester Riverside Convention Center, 123 East Main Street, Rochester, NY. Parking is the same as last year (South Avenue Garage)

TIME: 7:30 am to 6:30 pm

COST: $140 before April 2nd, $170 after April 2nd. Includes a continental breakfast during registration, all coffee breaks between courses, lunch, and parking. Students are $20.

Register here and choose to pay by credit card or to mail your check to (check payable to RES). The Rochester Engineering Society, 657 East Avenue, Rochester, NY 14607

REGISTRATION

- Advance Registration (mailing payment) – $140.00
  Please fill out registration and mail $140 to RES, 657 East Avenue, Rochester, NY 14607 before April 2, 2018.
- Advance Registration-Credit Card – $140.00
- AFTER April 2nd Registration (credit card) – $170.00
- AFTER April 2nd Registration (mail in) – $170.00
  Late registration (After April 2nd). Please mail payment of $170 to RES before April 23rd, 657 East Avenue, Rochester, NY 14607
- Presenter at Symposium
  For Presenters at the Symposium Only!
- Student Registration – $20.00
- Symposium Committee Member
  For the committee members only!

REGISTER AT:
https://www.roceng.org/event-2790872
WELCOME TO HOUSTON

A letter of invitation from Stephen Redding, General Chairman of the 2018 ASHRAE Annual Conference

The Houston Chapter and Region VIII cordially invite you to our dynamic city for education, networking and fun! The June 23-27, 2018 Annual Conference will be in the heart of downtown Houston – surrounded by parks, hotels, entertainment and dining venues, our convention center and professional sports venues.

Our technical tours will highlight HVAC systems in one of the world’s most air-conditioned cities. In south Texas, we are particularly proud of how our industry has conquered “hot and humid” – in our buildings, transportation, industry, entertainment and daily life.

Our general tours will introduce you to Houston – the nation’s 4th most populous city and home to:

- Space Center Houston: the official visitor center of the National Aeronautics and Space Administration's center for human spaceflight activities
- World’s largest medical center (52,000 employees, 21 million square feet, 4.8 million patients each year)
- World Series champion Astros (They will be playing in town that week!)
- World’s first indoor sports stadium – the 50-year-old Astrodome, currently being re-purposed as an event space
- The Houston Theater District, a 17-block area downtown and home to nine professional performing arts organizations, Bayou Place entertainment complex, restaurants, movies, plazas, and parks
- The Houston Museum District: 19 museums, galleries, cultural centers and community organizations, dedicated to promoting art, science, history and culture.

Houston encompasses an area larger than New Jersey and has been cited as the most ethnically diverse city in the nation. You will find that reflected in our dining, culture and friendliness. You can hear more than 90 spoken languages and can check-in with any of 84 consular offices. In the mood for Fajitas? Pad Thai? Tikki Masala? Fish Sauce or Pho? Barbecue and Craft Beer? – we have you covered (and at reasonable prices)!

It will be a “Hot Time in the Old Town Tonight” – literally and figuratively. Heat is energy and you will feel that energy – in the ASHRAE sessions, in interactions with your colleagues and in the discovery of a vibrant, beautiful city.

We look forward to meeting you in Houston!
Steve Redding, General Chair / Houston Host Committee
Making Energy Efficiency a Reality
ASHRAE Webcast | April 19, 2018

April 19, 2018 | 1:00 – 4:00 PM EDT

Register Now to view the FREE ASHRAE Webcast

Viewers will learn about:

- Myths and realities of energy efficiency discovered through real-life experiences.
- How a practical design approach can help achieve optimum energy performance in commercial and high-rise residential buildings.
- Strategies and policies that dive into deep efficiency goals.

This webcast program is brought to you by the ASHRAE Chapter Technology Transfer Committee.

REGISTER AT:
https://www.ashrae.org/professional-development/ashrae-webcast
Three (3) Professional Development Hours (PDHs) may be awarded to participants who complete the Participant Reaction Form online by **May 4, 2018**.

The webcast program has been approved for three (3) HSW Learning Units (LU/HSWs) by the American Institute of Architects (AIA), as well as three (3) Continuing Education Hours by GBCI. The state of New York also recognizes AIA course approval.

**Opening Remarks**

*Bjarne W. Olesen, Ph.D., ASHRAE Fellow*

2017 - 2018 ASHRAE President
Kongens Lyngby, Danmark

**The Presenters**

*R. Christopher Mathis, ASHRAE*

President, MC²
Mathis Consulting Company
Asheville, NC

*Tom Durkin, P.E., LEED AP, ASHRAE Fellow*

Senior Partner
Sims Durkin
Richland, WA

*Mark Frankel, ASHRAE, AIA, LEED Fellow*

Technical Director
New Buildings Institute
Portland, OR
HVAC Design: Level I – Essentials

When: April 9 - 11, 2018 | Baltimore, MD
Cost: $1,264 (ASHRAE Member: $1,009)

Company Discount: Enroll 3 or more participants from the same company at the same time and SAVE!

ASHRAE's HVAC Design: Level I – Essentials provides intensive, practical training for HVAC designers and others involved in the delivery of HVAC services. In three days, gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use.

- Fundamentals
- Heating/Cooling Load Calculation
- System Selections
- HVAC System and Components
- Cooling System
- Basic Design of Hydronic Systems
- Basic Design of Air Systems
- Control/BAS

BONUS! Get a FREE copy of *ASHRAE Duct Size Calculator (I-P and SI units).*
HVAC Design: Level II – Applications

When: April 12 - 13, 2018 | Baltimore, MD
Cost: $854 (ASHRAE Member: $699)

Company Discount: Enroll 3 or more participants from the same company at the same time and SAVE!

Register for BOTH training sessions to save money and fast track your experience level!

ASHRAE’s HVAC Design: Level II – Applications provides instruction on HVAC system designs for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. In two days, gain an in-depth look into Standards 55, 62.1, 90.1, 189.1 and the Advanced Energy Design Guides. Training will focus on a range of topics including: HVAC equipment and systems, energy modeling, designing a chiller plant, and BAS controls.

- Sustainability/Green/LEED/HPB/NZEB
- Standard 55
- Standard 62.1
- Building Systems: Education Facility
- System Applications: Chiller/Boiler, Air Handlers, VAV Terminals
- Life Cycle Cost
- Building Systems: Multi-story Office Building
- Water-to-Water GSHP Option 1
- Chilled Beam with DOAS
- Water-to-Water GSHP Option 2
- UFAD


Your Instructors

Joel Primeau, P.Eng., Member ASHRAE, HBDP, LEED® AP

Dennis Wessel, P.E., Fellow/Life Member ASHRAE, LEED® AP
As Designed Rating Now Live in ASHRAE's Building EQ Portal

ASHRAE's Building Energy Quotient (Building EQ) Portal provides a quick energy analysis that compares your building to similar buildings within the same climate, helps to identify means to improve your building's energy performance, and provides data on Indoor Environmental Quality.

Both the In Operation and As Designed evaluations are now available in the Building EQ Portal. The As Designed rating compares potential building energy use to the baseline performance of similar buildings using a simulated standardized energy use model.

- Based on a building's physical characteristics and systems
- Independent of occupancy and operating variables
- Allows comparison of potential energy performance between buildings with very different operational and occupancy profiles
- Identifies whether a building is achieving the full design potential as compared to actual energy performance as shown in the In Operation rating
- Models only the candidate building for consistency between the two ratings
- Applicable to both new and existing buildings

LEARN MORE AT: https://www.ashrae.org/technical-resources/building-eq