March ASHRAE Meeting

**Topic:** Energy and Flow Measurements in Hydronic Systems

**Presenter:** Michael Rivers, Onicon

**When:** Monday March 12th, 2018

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

**Cost:** $25.00

Please RSVP by noon Friday, March 9th to Tim Duprey
tduprey@pathfinder-ea.com
Or
ASHRAE.Rochester@gmail.com

PDH Approved!

See page 5 for more details
### Chapter Officers

**President**
William J. Clark  
(585) 303-0729  
william.clark@DayAutomation.com

**President Elect**
Paul Kenna, PE  
(585) 261-0558  
pkenna@nrg-concepts.com

**Treasurer**
Tom Streber  
(585) 272-9450  
tstreber@jwswanson.com

**Secretary**
Mike Benedict  
(585) 490-2661  
mike@airsystemsbalancing.com

### Committee Chairs

**CTTC**
Jeff Wiedrick (585) 325-8354  
jwiedrick@bergmannpc.com

**Grassroots Government Advocacy**
Marjani Wilson (585) 402-7069  
mwilson@labellapc.com

**Refrigeration Co-Chairs**
Michael Nohle (585) 545-5522  
mnohle@meiersupply.com  
Sam Scorsone, PE (585) 429-3925 ext 3925  
Samuel.Scorsone@wegmans.com

**Historian**
Jake Hall (585) 869-5125  
jhall@proairplus.com

**Membership**
George Herman (585) 219-5908  
george@hermanhvac.com

**YEA**
Matt Kremers (585) 398-8018  
mkremers@mcsmmms.com

**Student Activities**
Rob Hudson, PE (585) 341-3187  
rhudson@ibceng.com

### Board of Governors

**Education**
Bill Murray (585) 641-7121  
bmurray@ec4b.com

**Newsletter Editor**
Scott Edwards (585) 301-6591  
ashraerocnews@gmail.com

**Attendance**
Bret Fryover (585) 427-8888  
fryover@erdmananthony.com

**Publicity**
Mark Kukla (585) 232-3440  
mark@airsystemsbalancing.com

**Research Promotion**
Matt Devlin (585) 232-5135  
mdevlin@bergmannpc.com

**Webmaster**
Steve Dear (585) 325-1290  
sdear@crosbybrownlie.com

**Nominating / Past President**
Jeff Close (585) 289-6816  
Jeff.close@pres-services.com

**Buyer’s Guide**
TBD
## 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.

## 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.

### ASHRAE 2017-2018 Meeting Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Resource Promotion (PDH Pending)</th>
<th>Location</th>
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<tbody>
<tr>
<td>Monday, 3/12/2018</td>
<td>&quot;Energy and Flow Measurements in Hydronic Systems&quot; Presented By: Onicon</td>
<td>City Grill @ 12:00 PM</td>
<td></td>
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<tr>
<td>Monday, 4/9/2018</td>
<td>Refrigeration night - presentation and tour TBD</td>
<td>Refrigeration Night (PDH Pending)</td>
<td>TBD</td>
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<tr>
<td>Monday, 5/21/2018</td>
<td>Annual Picnic / Golf Outing at Ravenwood</td>
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<td>11:00 AM Golf</td>
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<td></td>
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<td>5:30-8:00 Picnic</td>
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President’s March Message

March Newsletter 2018
President’s Message

Our meeting in February was on “Modeling VRF for Loads and Energy on an 8760 Analysis” present by Bob Feduik, Carrier Corp. Thanks to Bob for sharing his knowledge with us and thanks to everyone who attended.

On Friday, February 9th, 2018 the Rochester ASHRAE Chapter hosted it’s 61st Annual Valentine Dinner Dance at the Strathallan in Rochester. A special thanks to Jody and Matthew McGarry for putting on another fantastic event. Also, thanks for all those who attended and contributed to the event.

During Engineers Week several of our chapter members took time out of their busy schedules to visit local High Schools and share engineering knowledge, experience and passion to students. Thanks to Rob Hudson (Student Activities Chair) and others who participated.

In March our Chapter Meeting will be on “Energy Flow and Measurements in Hydronic Systems” presented by Onicon.

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

Bill Clark, 2017-2018 President
March 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.

March ASHRAE Meeting << PDH APPROVED!>>

Date: Monday, March 12th, 2018

Location: City Grill

Time: 12pm Lunch Buffet, presentation starts at approx. 12:30pm

Cost: $25.00

Speaker: Michael Rivers, Onicon

Topic: Energy and Flow Measurements in Hydronic Systems

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 March 9th to Tim Duprey
Phone: 585.330.6430 or e-Mail ... tduprey@pathfinder-ea.com
Highlights from February ASHRAE Meeting

Bob Feduik from Carrier Corp. presents “Modeling VRF for Loads and Energy on an 8760 Analysis at the City Grill on Monday February 12th."
Highlights from February

Valentine’s Day Dinner Dance

Much thanks to Jody McGarry for putting together a wonderful event at The Strathallan Hotel & Spa in downtown Rochester!
Highlights from February
Valentine’s Day Dinner Dance
Valentine's Day Dinner Dance

Thank you to our sponsors!

**Platinum Level**

Christa Construction
ABR Wholesalers, Inc.
Crosby-Brownlie, Inc.
Gray Metal Products
Mech Tech HVAC Inc.
Pathfinder Engineers & Architects
R.L. Kistler, Inc.
Sheet Metal Workers International
Victaulic

**Gold Level**

Cogenic Mechanical
Day Automation Systems, Inc.
Erdman Anthony
Guckian Energy Systems
Hart & Cooley
Herman HVAC Products LLC
IBC Engineering, P.C.
Isaac Heating & Air Conditioning
J.W. Swanson & Associates
Kenron Industrial
LaBella Associates, D.P.C.
M/E Engineering, P.C.
Northern Air Systems
Postler & Jaeckle Corporation
PRES Services
R.F. Peck, Inc.
R.P. Fedder Corporation
Trane
Upstate Systems, Inc.
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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<td>RP</td>
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<td>Student Activities</td>
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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

ASHRAE Technology Awards

It’s not too early to start thinking about your submission!

Awards are presented in six categories for new and existing facilities. Judging based on Energy Efficiency, IAQ and Thermal Comfort, Innovation, Operation and Maintenance, Cost Effectiveness, Environmental Impact and Quality of Presentation.

Only a one-page application, schematic and short narrative.

Be recognized by your peers and move on to the Regional Competition.

Submissions will be due in April, 2018.

The following link includes additional details about the awards program:

https://www.ashrae.org/membership--conferences/honors--awards/technology-awards-program-overview

Email jwiedrick@bergmannpc.com with any questions.

YEA

YEA Leadership Weekend will be held in Seattle, WA from March 23-25 2018. The Rochester ASHRAE Chapter can host limited ASHRAE YEA members at no cost to the participants. Contact Matt Kremers at mkremers@mcsmms.com for more information.

Are you interested in expanding your knowledge, meeting fellow engineers and having some fun along the way? Look no further than YEA Leadership Weekend! YEA Leadership Weekend is an opportunity for you—the future leaders of ASHRAE—to learn more about Society, develop soft skills and network with other young professionals. Over 600 YEA members have already taken advantage of this great opportunity...will you be next?

This event will include segments on understanding your own personality as well as other types, leadership development for young professionals, communication techniques and ASHRAE leadership opportunities.

Nominating Committee

ASHRAE Rochester announces the following candidates have accepted and will represent the Nominating Committee:

- Jeff Close (Past President 2016-17) - Nominating Chairperson
- Chris Walter (Past President 2015-2016)
- Ed Burns (Past President 2014-2015)
- Michelle Sommerman (Past President 2012-2013)
- Jim Browe (Past President 2010-2011)

Jeff Close, P.E.
Nominating Committee Chair
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 ASHRAEExChange.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

<table>
<thead>
<tr>
<th>Name</th>
<th>(First)</th>
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<tr>
<td>Primary Address</td>
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<td>Home</td>
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<td>Company Name</td>
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<td>Name/Chapter of referring member (if applicable):</td>
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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: | |

3. Demographics

Which best describes your title? __________

- B- President
- C- Partner
- D- Associate
- E- Owner
- F- Vice President
- G- VP Eng. Chief Engineer
- K- Design Eng./Designer
- L- Proj./Application Eng.
- O- Facility Eng./Mgr.
- P- R&D Eng.
- R- Sales Engineer

Which best describes your firm? __________

- 11- Consulting Eng.
- 12- Architectural & Eng.
- 13- Design/Build
- 21- Contractor
- 26- Property Mgmt & Dev.
- 31- Industrial Facility
- 41- Commercial Facility
- 42- Gov’t, Health, Education
- 43- Utility

Which best describes your function? __________

- 1- Design/Application
- 2- Manufacturing
- 3- Maintenance
- Operations
- 4- Management

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

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

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!

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!

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__________________________________________ 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 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
Paul Kenna  President Elect / Program
X Tom Streber  Treasurer
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
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)
X Bret Fryover  Attendance Co-Chair
Tim Duprey  Attendance Co-Chair
Jake Hall  Historian Chair
Scott Edwards  Newsletter Editor
Matt Devlin  Resource Promotion Chair (RP)
Rob Hudson  Student Activities Chair (SA)
Al Rodgers  Awards & Recognition Chair
Bill Murray  Education
X Mark Kukla  Publicity
Jim Browe  Picnic/Golf Chair
Buyers Guide
X Jody McGarry  Valentine’s Dinner Dance
Mike Nohle  Refrigeration Co-Chair
Tom Burke  Grassroots Government Advocacy Co-Chair
X Jaimee Wilson  Women in ASHRAE
Michelle Sommerman  Women in ASHRAE
1. Call to Order Bill Clark
2. Roll Call Mark Kukla
3. Review and Approval of Previous Meeting Minutes All
4. Treasurer Tom Streber
   • Current Statement Balances
   • PayPal Account Updates
   • Checks deposited for Valentine’s dinner
5. President Elect/Program Paul Kenna
   • Schedule- all set except for April tour
   • Symposium - all speakers are in place for 4/24/18
6. Attendance Bret Fryover
   • Current reservations
   • What do we need to track and is there an automated way to do it?
   • Last month (86) attendees - excellent
7. CTTC Report Jeff Wiedrick
   • Project submission by April 1, 2018
8. Membership Report George Herman
   • Current members
9. Student Activities Report Rob Hudson
   • Student chapter
   • Engineers Week - some volunteers are in place
   • 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.
    • This year we can still present an award through our chapter
11. YEA Report Matt Kremers
    • Radio Social bowling night & controls tech session planned
12. Awards & Recognition Report Al Rodgers
13. Resource Promotion Report Matt Devlin
    • Current vs. Goal
    • Donor Recognition Boards
14. Refrigeration Report Mike Nohle/Sam Scorsone
    • Refrigeration Tour coming up in April. Location TBD
15. Grassroots Government Advocacy Report Marjani Wilson/Tom Burke
    • June Albany visit planned
    • Received official proclamation for Engineers’ Week from the mayor of Rochester
   • Committee submissions
   • Newsletter deadline
   • Need to thank Valentine’s dinner sponsors

17. Buyers Guide  TBD
   • Move to business card adds for newsletter and website.
     i. Need demo of where for 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

   • Nominating Committee needs to be published in the newsletter

22. Valentines Dinner Dance Report  Jody McGarry
   • (130) people coming - excellent showing

23. Golf/Picnic Report  Jim Browe
   • Ravenwood May 21st

24. Women in ASHRAE  Jaimee Wilson/Michelle Sommerman
   • Planned Activities

25. Presidential Award of Excellence (PAOE)

26. New Business:
   • RES Gala Affiliate Sponsorship
   • Additional sponsorship opportunities that include event tickets
   • Ski Day - Can the chapter support burgers and hot dogs for the event?

27. Old Business:
   • 2016-17 Audit and Audit Committee
   • Lynn Bellenger Hall of Fame Award Nomination

28. Set next BOG Meeting date / time / place.
   • Friday, March 9th @ 7:30 AM, Day Automation Office

29. Adjourn
WHEREAS: Engineers use their scientific skills and specialized knowledge and skills in creative and innovative ways to fulfill society’s needs; Engineers help solve major technological challenges of our time - from designing efficient building systems to rebuilding towns devastated by natural disasters; and

WHEREAS: Engineering has been called the invisible or stealth profession because everything around us and things we use every day have been engineered in some way, yet we may not see the engineers behind the scenes or know much about engineering; and

WHEREAS: Founded in 1951, National Engineers Week (EWeek) is dedicated to ensuring a diverse and well-educated future engineering workforce by increasing understanding of, and interest in, engineering and technology careers; and

WHEREAS: EWeek is a formal coalition of more than 70 engineering, education and cultural societies, with more than 50 corporations and government agencies dedicated to raising public awareness of engineers’ positive contributions to the quality of life; EWeek promotes recognition among parents, teachers and students of the importance of a technical education and a high level of math, science and technology literacy, and motivates youth to pursue engineering careers in order to provide a diverse and vigorous engineering workforce; and

WHEREAS: The American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) sets standards for the heating, ventilation, air conditioning and refrigeration industry, in addition to certifying and educating people in the industry across the country; and

WHEREAS: The City of Rochester joins with The Rochester Chapter of ASHRAE, and its approximately 240 local members, to acknowledge engineers throughout our community, and the many ways they enhance the quality of our lives, during National Engineers Week, observed February 18-24, 2018.

NOW, THEREFORE, I, Lovely A. Warren, Mayor of the City of Rochester, New York, do hereby proclaim February 18–24, 2018 to be:

NATIONAL ENGINEERS WEEK

In the City of Rochester, N. Y.

In Witness Whereof, I have hereunto set my hand on this eighteenth day of February in the year 2018.

Signed:

Lovely A. Warren
Mayor, Rochester, New York
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.

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.

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

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

$545 ($395 ASHRAE Members) per certification application

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

Are You Ready to Join Them?

*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, BEAP, 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 In 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 building 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 BEMP project is located, may submit the As Designed Workbooks to ASHRAE. Like BEAPs who may submit In 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. 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, 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.
The Philadelphia Chapter of ASHRAE is offering a comprehensive, in-depth and unique two-day program covering ANSI / ASHRAE / IES Standard 90.1 (2007) Energy Standard for Building (except Low-Rise Residential Buildings). A program of this magnitude and depth is not available anywhere else. Registration is open to everyone interested, and especially members of AIA, IES, IALD, USGBC, and CSI.

All presenters are the people who write and enforce the 90.1 standard. This is the only current energy option to the 2009 IECC in Pennsylvania and is the foundation for all later versions. Do not confuse this with presentations by other groups on later versions not adopted or required.

**Location**

Penn State at The Navy Yard
Building 661
4960 S. 12th Street
Philadelphia, Pa 19112
Parking is FREE

Public transportation is available via the Broad Street Subway Line and a free shuttle bus from the last subway station, AT&T Station. The Courtyard by Marriott Philadelphia South at the Navy Yard is a few blocks away.

**Cost**

$155.00 per person, per day
Lunch, snacks, refreshments and handouts are included.

Full time students and full time code officials are eligible for a discounted rate of $100 per day.

Standard and Users manuals for requested years are available for purchase at the discounted rate of $70.00 per book. The books are available at this drastically reduced price only if paid in advance with the conference registration.

**PDH Credits**

Eight (8) PDH credits are offered per day.

**Register**


For more information, contact
Judd Vail at [jvail@csande.net](mailto:jvail@csande.net) or 484-873-3974
or Hope Silverman at [hope@mmco1.com](mailto:hope@mmco1.com) or 610-971-2169.
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 advanced for supporting this long standing ASHRAE Rochester Chapter tradition.

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

Company: _________________________________________
OR
Individual Name: ____________________________________
Address: ___________________________________________
City: ________________ State: _________ Zip: __________
Phone: (Work) _______________ (Home) ________________

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

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

Total Check Amount:

Sponsorship Form

<table>
<thead>
<tr>
<th>Sponsorship</th>
<th>X for Sponsorship</th>
<th>Sponsorship Amount</th>
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<tbody>
<tr>
<td>Major Door Prize Sponsor – Gift/Item or Cash Donation- $200 or more.</td>
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<td></td>
</tr>
<tr>
<td>Gold - $250.00 - Hole Sponsorship and Recognition at Picnic</td>
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</tr>
<tr>
<td>Silver - $150.00 - Hole Sponsorship</td>
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<td>$150.00</td>
</tr>
<tr>
<td>Bronze - $100.00 - Recognition at Picnic</td>
<td></td>
<td>$100.00</td>
</tr>
<tr>
<td>Prize Sponsor - $175.00 - Longest Drive</td>
<td></td>
<td>$175.00</td>
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<tr>
<td>Prize Sponsor - $175.00 - Closest to Pin</td>
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<tr>
<td>Please include check (on notes put what sponsorship you made) and make payable to: ASHRAE Rochester Chapter</td>
<td></td>
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<tr>
<td>Mail to:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attention:  Jim Browe</td>
<td></td>
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<tr>
<td>RF Peck Company, Inc.</td>
<td></td>
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<tr>
<td>889 Atlantic Ave.</td>
<td></td>
<td></td>
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<tr>
<td>Rochester, NY 14609</td>
<td></td>
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</tr>
<tr>
<td>Any questions, call Jim at (585) 697-0836 ext. 101</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email:  <a href="mailto:jbrowe@rfpeck.com">jbrowe@rfpeck.com</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Company: _________________________________________
OR
Individual Name: ____________________________________
Address: ___________________________________________
City: ________________ State: _________ Zip: __________
Phone: (Work) _______________ (Home) ________________
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.

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

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

Ticket Request Form

<table>
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<th># Attending</th>
<th>Total</th>
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</thead>
<tbody>
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<td>$</td>
</tr>
<tr>
<td>Picnic</td>
<td>$55.00</td>
<td></td>
<td>$</td>
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</tbody>
</table>

OR:
Golf and Picnic (SAVE $10.00) $140.00

Total amount enclosed: $
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