

# ASHRAE Rochester



VOLUME 12, ISSUE 7

MARCH 2018

## INSIDE THIS ISSUE:

Officer / Committee List	2
Events Calendar	3
President Msg	4
Monthly Meeting Info	5
Highlights from February	6
Valentine's Day Dinner Pictures	7
Valentine's Day Dinner Thanks	9
Job Postings & PAOE to date	10
Committee Updates	11
Student Membership	12
BOG Meeting Minutes	16
Engineer's Week	19
ASHRAE Certification	20
Tech Seminar ASHRAE 90.1	22
May Golf Outing Info	23
Houston Annual Conference	25

## 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](mailto:tduprey@pathfinder-ea.com)

Or

[ASHRAE.Rochester@gmail.com](mailto:ASHRAE.Rochester@gmail.com)

PDH Approved!

See page 5 for more details

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.



## Chapter Officers

### President

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jwiedrick@bergmannpc.com

### Grassroots Government Advocacy

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mwilson@labellapc.com

### Refrigeration Co-Chairs

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mnohle@meiersupply.com  
Sam Scorsone, PE (585) 429-3925 ext 3925  
Samuel.Scorsone@wegmans.com

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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

ASHRAE 2017-2018 Meeting Schedule			
Monday, 3/12/2018	"Energy and Flow Measurements in Hydronic Systems" <i>Presented By: Onicon</i>	<i>Resource Promotion (PDH Pending)</i>	City Grill @ 12:00 PM
Monday, 4/9/2018	<i>Refrigeration night - presentatoin and tour TBD</i>	<i>Refrigeration Night (PDH Pending)</i>	TBD
Monday, 5/21/2018	<i>Annual Picnic / Golf Outing at Ravenwood</i>	---	11:00 AM Golf 5:30-8:00 Picnic

## Mission Statement

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



Shaping Tomorrow's  
Built Environment Today

## Vision Statement

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

# President's 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 9<sup>th</sup>, 2018 the Rochester ASHRAE Chapter hosted it's 61<sup>st</sup> 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](http://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](https://www.facebook.com/#!/ashraerochester).



*Bill Clark, 2017-2018 President*

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

# 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 Buffett, 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](mailto: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](mailto: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



Download



Achievements



Report

Chapter:

ROCHESTER

Fiscal Year:

2017-2018

Chapter Operations	Par: 1200	Min Points: 600	Total Points: 815
Chapter Technology Transfer	Par: 1050	Min Points: 450	Total Points: 0
Electronic Communications	Par: 500	Min Points: 250	Total Points: 50
Grassroots Government Advocacy	Par: 650	Min Points: 500	Total Points: 550
Historical Criteria	Par: 300	Min Points: 100	Total Points: 155
Membership Promotion	Par: 800	Min Points: 500	Total Points: 870
RP	Par: 1050	Min Points: 800	Total Points: 960
Student Activities	Par: 500	Min Points: 300	Total Points: 200

## 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](mailto: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 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](mailto:jwiedrick@bergmannpc.com) with any questions.

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## **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](mailto: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.

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## ***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



# ASHRAE Membership Application

Save Time. Join Online at [www.ashrae.org/join](http://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](http://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](http://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](http://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](http://ashrae.org/codeofethics).

Completed applications or questions can be sent to ASHRAE via  
email: [membership@ashrae.org](mailto: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 Professor
G- VP Eng. Chief Engineer	Y- Student
K- Design Eng./Designer	Z- Librarian
L- Proj./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
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](http://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](http://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](http://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](mailto: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](http://ashrae.org/studentbookstore)

**6. Payment.**  Visa  Mastercard  Amex  Diner's Club  Check/money order\*\*

Card # \_\_\_\_\_ Expiration Date \_\_\_\_\_ / \_\_\_\_\_  
 (Month) (Year)

Total Amount: \_\_\_\_\_ Signature \_\_\_\_\_

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



**Rochester Chapter - ASHRAE**

**Board of Governors Meeting**

**February 9, 2018 @ 7:30 AM**

**Day Automation, 7931 Rae Blvd, Victor, NY 14564**

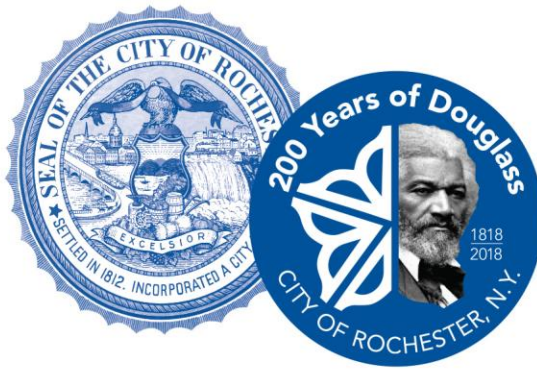
**Meeting Minutes**

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 Scorsone	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

16. Newsletter Report Scott Edwards
- 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
21. Nominating Report Jeff Close
- 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 21<sup>st</sup>
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 9<sup>th</sup> @ 7:30 AM, Day Automation Office
29. Adjourn



CITY OF ROCHESTER

OFFICE OF THE MAYOR

# Proclamation

- 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:**

A handwritten signature in blue ink that reads '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](http://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](http://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](http://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?



## 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."*

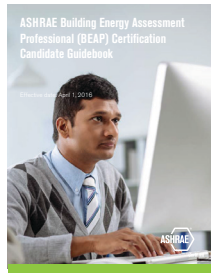
Jeffrey G Ross-Bain, BEMP, Ross-Bain Green Building, LLC



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 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)

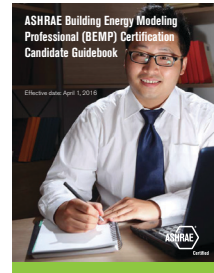


The growing emphasis on energy consumption reduction and cost savings has highlighted the need for credible specialists who assess energy use in buildings. The BEAP certification validates competency to *audit, assess and analyze residential, commercial and industrial building energy use and develop 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 In Operation Workbook. Additionally, only BEAPs (and BEMPs whose certification relates to the As Designed Workbook) may display the bEQ Certified Provider logo with descriptions of their services. For more information about bEQ, visit [www.buildingenergyquotient.org](http://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 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](http://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.

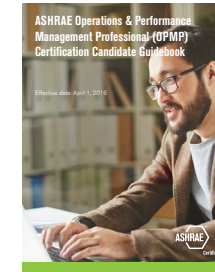
## Healthcare Facility Design Professional (HFDP)



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.

## SCHEDULE

### Tuesday, March 27, 2018

7:30 AM - 8:00 AM	Registration
8:00 AM - 8:30 AM	<b>Intro, IECC, User's Manual,</b> <b>Scope:</b> Larry Spielvogel, PE, Past 90.1 Chair
8:30 AM - Noon	<b>Building Envelope:</b> Joseph Deringer, AIA, SuPerB, Past 90.1 Envelope Chair
12:45 PM - 1:30 PM	<b>Building Envelope:</b> Joseph Deringer, AIA
1:30 PM - 3:45 PM	<b>Lighting:</b> Carl Watson, PE, Consulting Engineer & Code Official
3:45 PM - 5:00 PM	<b>Energy Modeling &amp; App G:</b> Michael Tillou, PE, Atelier Ten, 90.1 ECB Committee

### Wednesday, March 28, 2018

7:30 AM - 8:00 AM	Registration
8:00 AM - 8:30 AM	<b>Intro, IECC, User's Manual,</b> <b>Scope:</b> Larry Spielvogel, PE, Past 90.1 Chair
8:30 AM - Noon	<b>HVAC Systems:</b> Mack Wallace, PE, Jacobs/WiseWatt LLC, 90.1 Mechanical Committee
12:45 PM - 3:00 PM	<b>HVAC Equipment:</b> Dick Lord, UTC Carrier, 90.1 Vice-Chair, 90.1 Mechanical Committee
3:15 PM - 4:00 PM	<b>Service Water Heating:</b> Mack Wallace, PE
4:00 PM - 5:00 PM	<b>Compliance:</b> Ernie Conrad, PE, Consulting Engineer, 90.1 Compliance Committee

### Nearby Hotels

Courtyard Philadelphia South  
at Navy Yard  
*Use Promo Code: CJ9*

Residence Inn Philadelphia Airport  
*Use Promo Code: CJ9*



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** Register and make your book selections at  
<http://ashraephilly.org/meetinginfo.php?id=69&ts=1517883031>



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

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

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

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

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

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

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

## Sponsorship Form

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



MONDAY, MAY 21, 2018  
 ASHRAE Picnic / Golf Tournament  
 To be held at  
Ravenwood Golf Course

Reservation Deadline is... May 14<sup>th</sup>, 2018

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

**Four Man Scramble and  
Optional Skins Game**

Golf includes:

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

**NO TICKETS WILL BE SOLD OR DISTRIBUTED AT THE DOOR!**

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

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

**Return this form....**

**Mail prior to May 14<sup>th</sup>, 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](mailto: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**

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





# 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