



VOLUME 10, ISSUE 7

MARCH 2016

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# March ASHRAE Meeting

## March ASHRAE Tour

**Monday, March 14, 2016**

**Dinner / Tour Location:** Kornberg Medical Research Building (KMRB), located in the School of Medicine and Dentistry.



**Time:** 5 PM Dinner / 6:15 PM Tour

**Cost:** \$25.00

**Speaker:** Stephen Mischissin, PE

**Topic:** University of Rochester – Central Utilities Plant

Please RSVP by noon Thursday, March 10<sup>th</sup> to Tim Duprey,  
tim.duprey@pres-services.com.

<<< \*\*\* as this is a catered event, we need to minimize the last minute replies and walk-ins \*\*\* >>>

**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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585-486-2148  
cmwalter@trane.com

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william.clark@DayAutomation.com

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## Committee Chairs

### CTTC

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### Nominating

Ed Burns 585-739-7548  
[ejb@mechtechhvac.com](mailto:ejb@mechtechhvac.com)

### Buyer's Guide

Marianne Schumacher 585-217-3942  
[marianne.schumacher@jci.com](mailto:marianne.schumacher@jci.com)

## ASHRAE 2015-2016 Meeting Schedule

Date	Event	Theme	Location
Monday, 3/14/2016	Chapter Facility Tour (University of Rochester - Strong Hospital Central Plant)	---	Dinner @ 5:00 PM Tour @ 6:15 PM
Monday, 4/11/2016	Retro-Commissioning Existing Buildings (presented by Al Rodgers & Ron Sanger)	(PDH Pending)	City Grill @ 12:00 PM
Monday, 5/9/2016	Annual ASHRAE Golf Outing and Picnic (Ravenwood Golf Course)	---	9:30 AM Golf 4:30 - 8:00 Picnic

Note: Dates, topics and presenters are subject to change, any updates will be posted on our website ([rochester.ashraechapters.org](http://rochester.ashraechapters.org)).

## ASHRAE Region I - Chapters Regional Conference (CRC)

Date	Event	Location
8/18/16 - 8/20/16	<b><u>SAVE THE DATE</u></b> - The Rochester ASHRAE Chapter is hosting the Region I CRC.	Hyatt Downtown

## 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 President's Message:

This year seems to be flying by and even though February has been a busy month for us, I take great comfort in the possibility of an early arrival for Spring. On February 5<sup>th</sup> the Rochester ASHRAE Chapter had its 59<sup>th</sup> Annual Valentine Dinner Dance at the Stratthallan. A big 'Thank-you' goes out to **Jody and Matthew McGarry** who celebrated their 23<sup>rd</sup> anniversary of their 1 year commitment for hosting this event. They did a fantastic job, as usual, and a great time was had by all. That was followed by our February 8<sup>th</sup> lunch meeting which was well attended, but sadly it was our final meeting at Mario's. I would like to thank **Mr. Robert Feduik**, Regional Software Manager with Carrier Corporation, for his presentation on Building Load Analysis.

Our March program will be a tour of the **UR Strong Hospital Central Plant**. We hope to see you there and invite you to Come and enjoy *Making Connections!*

As the program year is winding down, we prepare for the BIG golf/picnic on May 9<sup>th</sup>, and we have the honor of hosting the ASHRAE Region I Chapter Regional Conference (CRC) August 18-20, 2016. Our Chapter is currently seeking sponsorships to defray the costs associated with the CRC in an effort to reduce the costs for attendees of this event. Typically 100-150 Region I ASHRAE Members along with spouses and families attend the CRC. With help from our sponsors, not only will we be able to reduce the costs for members who typically attend the CRC, but also make the registration costs attractive for other members who normally would not consider attending the CRC. Region I encompasses 15 chapters throughout New York, New Jersey, and New England (including representation from MA, ME, CT, VT, NH, RI, NJ and NY). If you are interested in becoming a sponsor for this event, please contact Jim Browe (jbrowe@rfpeck.com).

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, our current newsletter, CRC information and more! Or if Facebook is your preferred method of communication take a moment to 'like' us at [www.facebook.com/#!/ashraerochester](https://www.facebook.com/#!/ashraerochester).



*Christina Walter, 2015-2016 President*

Christina Walter  
2015-2016 President - Rochester Chapter

# Highlights from February

## ASHRAE Meeting



*Robert Feduik, Regional Software Manager with Carrier Corporation, discusses Building Load Analysis.*

## March Meeting Info

Arrangements have been made to have Mario's cater dinner for this event. With the assistance of Stephen Mischissin, P.E, (Director - Utilities & Energy Management at the University of Rochester), we have reserved the first floor atrium in Kornberg Medical Research Building (KMRB), located in the School of Medicine and Dentistry on Elmwood Ave. It is across the street from the plant. There is visitor parking adjacent to the building and also at the parking garage at Elmwood and Thomas Jackson Drive.

**Date:** Monday, March 14, 2016

**Location:** Kornberg Medical Research Building (KMRB), located in the School of Medicine and Dentistry

**Time:** 5:00 PM Dinner Buffet catered by Mario's Italian Restaurant ... Presentation to start approx. 5:30pm

**Cost:** \$25.00

**Speaker:** Stephen Mischissin : Strong Hospital / University of Rochester

**Topic:** Refrigeration Tour : Chiller Plant - Strong Hospital



<<< \*\*\* as this is a catered event, we need to minimize the last minute replies and walk-ins \*\*\* >>>

Remember, as an option, we have on-line payments available via PayPal.

<< Pay for Meeting Registration online via PayPal >> (no PayPal account required)

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

Cash or check payment is still accepted at the door with your reservation. Please let me know if you're even possibly going to be there!





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, Christina Walter 585-486-2148 or by email [cmwalter@trane.com](mailto:cmwalter@trane.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:

Fiscal Year:

▶ Chapter Operations	Par: 1000	Min Points: 400	Total Points: 400
▶ Chapter Technology Transfer	Par: 1050	Min Points: 450	Total Points: 400
▶ Grassroots Government Advocacy	Par: 650	Min Points: 500	Total Points: 0
▶ Historical Criteria	Par: 300	Min Points: 100	Total Points: 100
▶ Membership Promotion	Par: 800	Min Points: 500	Total Points: 710
▶ RP	Par: 1050	Min Points: 800	Total Points: 335
▶ Student Activities	Par: 500	Min Points: 300	Total Points: 0

## Like us on Facebook!



Visit our new Facebook page by searching for "ASHARE Rochester" on Facebook. Any ideas for additions or improvements email to Mark Kukla at [mark@airsystemsbalancing.com](mailto:mark@airsystemsbalancing.com). Keep up to date with current events and photos from recent meetings.



**ASHRAE**

*February 5, 2016*

*59th Annual  
Valentine Dinner Dance*

*The New Rooftop  
at  
The Strathallan Hotel  
550 East Avenue  
Rochester, New York 14607*

*We would like to thank our corporate sponsors*

**GOLD LEVEL:**

*Erdman Anthony  
Mech Tech HVAC, Inc.*

**SPONSORS**

*American Metals  
ABR Wholesalers, Inc.  
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Cogenic Mechanical  
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IBC Engineering, P.C.  
Isaac Heating & A/C  
Kenron Industrial Air Conditioning  
LaBella Associates, D.P.C.  
M/E Engineering, P.C.  
Monroe Piping & Sheet Metal, LLC  
Pathfinder Engineers & Architects  
Postler & Jaeckle Corp  
PRES Energy  
R.F. Peck Co., Inc.  
R.L. Kistler, Inc.  
R.P. Fedder Corporation  
Trane  
Upstate Systems, Inc.  
Victaulic*

# Rochester Chapter

## Committee Chairs Updates

### Young Engineers in ASHRAE



#### AIRSIDE FUNDAMENTALS

WEDNESDAY APRIL  
6<sup>TH</sup> FROM 6-9PM

LOCATION:  
TRANE  
75 TOWN CENTRE DRIVE  
ROCHESTER, NY 14623

RSVP BY EMAIL:  
[MKREMERS@MCSMMS.COM](mailto:MKREMERS@MCSMMS.COM)

THE COURSE IS  
FREE OF CHARGE.  
FOOD AND  
BEVERAGE  
PROVIDED.

#### YOUNG ENGINEERS IN ASHRAE

Rochester Chapter

Contact: Matt Kremers

[mkremers@mcsmms.com](mailto:mkremers@mcsmms.com)

## APRIL 6<sup>TH</sup> 2016

### YEA TECH SESSIONS

#### Airside Fundamentals

A great course to review the basics of airside design. Topics covered include fans, coils, duct design, controls, psychrometry, and more. Course is open to all ASHRAE members, primarily catered to engineers and contractors. Presented by Pat Whelan and Gannon Dubay of Trane Commercial Systems.





## YEA Tech Sessions- Hydronic System Basics February 3<sup>rd</sup>

Thank you to Branden Farnsworth-Weinblatt of PDG for volunteering his time to prepare the course and present for us. The turnout was fantastic. We had so much response that we had to relocate to a larger facility. Twenty Four young engineers and contractors attended the training, with many new faces! Keep an eye out for the advertisement of our next session, Airside Fundamentals on April 6<sup>th</sup>.

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## CTTC / Program

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

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

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

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

Awards are intended for built projects and as such must have been occupied prior to September 1st, 2015 to be eligible.

The following link includes additional details about the awards program:

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

Please consider representing the Rochester Chapter of ASHRAE by submitting your project to the chapter for consideration before **April 1, 2016**.

Email **[jwiedrick@bergmannpc.com](mailto:jwiedrick@bergmannpc.com)** with any questions, to receive an application form, for a sample application or any other concerns.

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## Research Promotion

The winner from the February meeting was Ben Curwin from VP Supply, who also donated his \$47 winnings back to ASHRAE!

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## The 2016 ASHRAE Region I CRC

Is coming to  
Rochester, NY!  
August 18th-20<sup>th</sup> 2016

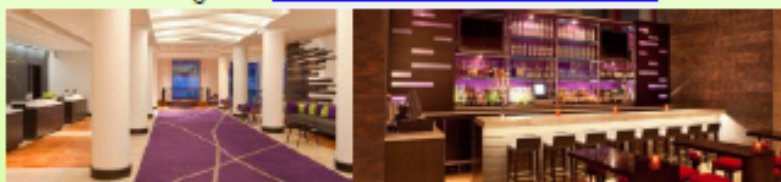
### What is the CRC?

The Chapters Regional Conference (CRC) is intended to provide a forum for the dissemination of information pertaining to chapter, regional and society activities. Region I consists of Connecticut, Maine, New Hampshire, New Jersey, New York, Rhode Island & Vermont. Chapters from these areas come together to report their activities from the past year and establish goals for the coming year. Technical sessions are conducted as well as award presentations and social activities. This is an annual conference and is located in the city of one of its region's chapters and we are proud Rochester is this year's chosen city for Region I.

### Our Accommodations & Meeting Space Hyatt Regency in Downtown Rochester

125 East Main Street, Rochester, NY

For reservations go to: <https://resweb.passkey.com/go/89fac322>



### Sponsorship

#### Foundation of the CRC

Our Chapter is currently seeking sponsorships to defray the costs associated with the CRC in an effort to reduce the costs for attendees of this event. Typically 100-150 Region 1 ASHRAE Members along with spouses and families attend the CRC. With help from our sponsors, not only will we be able to reduce the costs for members who typically attend the CRC, but also make the registration costs attractive for other members who normally would not consider attending the CRC.

#### Platinum Level Sponsor: \$5,000

Name and logo on tent sign at each table at Rochester ASHRAE meetings the entire year.

- Name and logo on signs at CRC2016
- Name and logo on CRC2016 and ASHRAE Rochester websites
- Name on CRC2016 brochures
- Special thanks at CRC2016 events
- Two tickets to Friday dinner
- Two tickets to Saturday Awards lunch
- Two tickets to Golf outing
- Listing in 2016-17 Rochester Newsletter for CRC sponsorship

#### Silver Level Sponsor: \$1000

- Name on tent sign at each table at Rochester ASHRAE meetings the entire year. (No logo)
- Name on signs at CRC2016 (No logo)
- Name on CRC2016 and ASHRAE Rochester websites (No logo)
- Name on CRC2016 brochures
- Listing in 2016-17 Rochester newsletter for CRC sponsorship
- Special thanks at awards lunch only

#### Gold Level Sponsor: \$2,500

Name and logo on tent sign at each table at Rochester ASHRAE meetings the entire year.

- Name and logo on signs at CRC2016
- Name and logo on CRC2016 and ASHRAE Rochester websites
- Name on CRC2016 brochures
- Special thanks at CRC2016 events
- Listing in 2016-17 Rochester Newsletter for CRC sponsorship

#### Bronze Sponsor: Min \$500

- List in Newsletter and webpage.
- Name on CRC 2016 ASHRAE Rochester websites (No logo)

Donations may be made by credit card through the [2016 CRC Sponsorship Page](#) or by contacting Jim Browe ([jbrowe@rfpeck.com](mailto:jbrowe@rfpeck.com)) or Paul Kenna ([pkenna@nrg-concepts.com](mailto:pkenna@nrg-concepts.com))

# Board of Governors Meeting Minutes



Rochester Chapter - ASHRAE

Board of Governors Meeting

February 5<sup>th</sup>, 2016 7:30 AM

Location: Trane, 75 Town Centre Dr.  
Rochester, NY 14623

## AGENDA

President / CRC Delegate	Christina Walter	X
President Elect / Program/ CRC Alternate	Jeff Close	X
Secretary	Bill Clark	X
Treasurer	Paul Kenna	
Immediate Past President	Ed Burns	
Board of Gov. (1)	Steve Dear	
Board of Gov. (1)	Sam Scorsone	
Board of Gov. (2)	Branden Farnsworth-Weinblatt	X
Board of Gov. (2)	Tom Streber	X
Board of Gov. (3)	Mike Benedict	
Board of Gov. (3)	Scott Edwards	X
Attendance	Tim Duprey	X
Historian	Lee Loomis	
Membership Promotion	Jake Hall	X
Newsletter Editor	Scott Edwards	X
Resource Promotion	Matt Devlin	
Awards	Al Rodgers	
CTTC	Jeff Wiedrick	
Education	Bill Murray	
Publicity	Mark Kukla	
Website	Kevin Wind	
YEA Chair	Matt Kremers	X
Student Activities	Chris Lukasiewicz	
Nominating (2 <sup>nd</sup> Past President)	Michelle Sommerman	
Picnic/Golf Chair	Jim Browe	X
Buyers Guide	Marianne Schumacher	X
Valentine's Dinner Dance	Jody M. McGarry	X
Chapter Tech Energy & Govt Activities	Tom Burke	
Refrigeration	Mike Nohle	

# Board of Governors Meeting Minutes

**Roll Call:** The above noted individuals were present.

**Call to Order:** 7:36 AM

## Meeting Minutes:

1. Call to Order Chris Walter
2. Roll Call Bill Clark
3. President Elect / Program Jeff Close
  - Bob Feduik from Carrier to present on Fundamentals of Building Loads on 2/8/16
  - March 3/14/16 meeting to be a tour of U of R central utilities plant starting at 5 pm, dinner location TBD.
  - April Meeting to be presented by Al Rodgers and Ron Sanger on Commissioning at the City Grill.
4. Approval of previous meeting's minutes All
  - Motion to approve - Jeff Close
  - Second - Scott Edwards
5. Treasurer's Report 2015/2016 Paul Kenna
  - Not present - report was sent before BOG meeting.
  - Paul talked with ESL about opening accounts with their bank.
    - i. We can have multiple accounts.
    - ii. No minimum balances on accounts.
    - iii. Can have 4 signers, 1 owner to rotate every 4 years.
  - Motion to change banks to ESL presented by Chris Walter
    - i. All present approved
6. Committee Reports
  - Technology Transfer Committee Jeff Wiedrick - No Report  
Program/Tech Sessions  
Technology Transfer
  - Membership Jacob Hall
    - Currently have 249 members.
    - Jake has been contacting delinquents for renewals, list of delinquents currently at 12.
  - Student Activities Chris Lukasiewicz
    - Nothing new on activities
    - 2 new student members
  - Education Bill Murray
    - No Report
  - YEA Matt Kremers
    - Great turnout for Hydronics class
    - 24 people turned out, from multiple firms
    - Next course to be presented by Trane on Wednesday 4/6/16
  - Awards & Recognition Al Rodgers
    - No Report
  - Resource Promotion Matt Devlin
    - Working on trap/skeet shooting outing

# Board of Governors Meeting Minutes

- Refrigeration Mike Nohle
    - Sam Scorsone has reached out to Mike Nohle to help work on a program for next year
  - Grassroots Government Advocacy Tom Burke
    - No report
  - Newsletter Scott Edwards
    - Jake Hall has offered to work on the member spotlight article
  - Buyers Guide Marianne Schumacher
    - Marianne has worked with Kevin Wind to update online buyers guide
  - Attendance Tim Duprey
    - January event was well attended with 72 people
    - Currently 52 people signed up for February meeting
  - Historian Lee Loomis
    - Jeff to reach out to Mark Kukla to see if he would be interested in the Historian role.
  - Publicity Mark Kukla
    - No Report
  - Website Steve Dear
    - Website moving forward.
  - Nominating Ed Burns
    - Ed needs speaker/topic ideas.
  - CRC 2016 General Chair Jim Browe
    - Jim reviewed additional budget
    - Jim is anticipating a \$7,000 to \$12,000 deficit between costs and income from the event. The difference will be covered by sponsorships, we currently have \$7,500 in sponsors to date.
    - Website for event to be completed by Monday 2/8/16
  - Valentine's Dance Jody McGarry
    - Expected to be about \$1,700 over budget currently.
    - Jody to look into adjusting the open bar.
    - 100 people have registered.
7. Old Business Campus
- Log PAOE points in monthly
  - Create/Update your Biography on [www.ASHRAE.org](http://www.ASHRAE.org) website
  - CRC 2016 Rochester, August 18-20
  - Lynn Bellenger Hall of Fame award
    - i. Nomination has been accepted for Hall of Fame
    - ii. If approved ASHRAE Board of directors Lynn would be inducted into the Hall of Fame at 2017 Winter meeting
8. New Business
- Grass Roots community project possibilities, STEM Outreach
  - New location for meetings is being researched
  - Potential Candidates for Rochester Chapter Historian
  - Engineering Symposium (need 2 topics/speakers)
  - RES Gala, Saturday April 16<sup>th</sup>
9. Next BOG meeting: Thursday, March 10<sup>th</sup> 7:30 am at Trane.
10. Adjourn 8:35 am





# ASHRAE Student Membership Application

## What You'll Get With Your ASHRAE Student Membership!

### What's "Cool" In ASHRAE

- ASHRAE promotes energy efficiency, savings and recovery
- ASHRAE reports on building controls, automation and integration
- ASHRAE focuses on green building issues and green technology
- ASHRAE maintains standards for indoor air quality
- ASHRAE promotes solar and other alternative energy sources
- ASHRAE offers certification programs, online learning opportunities and courses and seminars at ASHRAE Conferences

### How Can ASHRAE Help You?

- Provide access to new technology
- Offer professional development opportunities
- Create opportunities for networking
- Offer online continuing education programs and eLearning programs

### Student Member Benefits

- Access to members-only web pages
- Discounts on ASHRAE Handbooks
- Monthly ASHRAE Journal - print and digital
- HVAC&R Industry and Society Connections eNewsletters
- Complimentary ASHRAE Annual and Winter Conference registration (AHR Expo, Student Program, Technical Sessions)
- Virtual online HVAC&R resume posting, job and internship searching program

### ASHRAE Student Member Opportunities

- Society and chapter-level scholarships for both undergraduate and graduate engineering students
- Discounts for student members on select publications, go to [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) for more information
- Student Design Competition
- Networking with local ASHRAE Chapters
- Senior Undergraduate Project Grant Program
- 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!

You can continue your student membership after college with the ASHRAE SmartStart Program. After you graduate, you pay \$20 for the first year, \$50 for the second and the third years before advancing to regular member dues!

**Join ASHRAE students on Facebook  
Visit [www.ashrae.org/students](http://www.ashrae.org/students) to join!**



**ASHRAE**  
STUDENT MEMBERSHIP APPLICATION

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.  
ASHRAE • 1791 TULLIE CIRCLE NE • ATLANTA, GA 30329-2305 • FAX: 678-539-2212

FIRST NAME:

LAST NAME:

DATE OF BIRTH (mm/dd/yyyy)

Current Mailing Address: (this will be where all correspondence will be sent unless otherwise specified)

Street Address: \_\_\_\_\_ Apt. # \_\_\_\_\_ City: \_\_\_\_\_  
State/Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_ Country: \_\_\_\_\_  
Email: \_\_\_\_\_ Alternate email: \_\_\_\_\_ Phone: \_\_\_\_\_

Permanent Mailing Address: (during the Summer Months and after graduation)

☐ Check if Current Address is the same as Permanent Address

Street Address: \_\_\_\_\_ Apt. # \_\_\_\_\_ City: \_\_\_\_\_  
State/Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_ Country: \_\_\_\_\_  
Email: \_\_\_\_\_ Alternate email: \_\_\_\_\_ Phone: \_\_\_\_\_

ASHRAE protects contact information provided by its members and customers. To view ASHRAE's privacy policy visit [www.ashrae.org/privacy-policy](http://www.ashrae.org/privacy-policy).

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 Full member, 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: \_\_\_\_\_ Phone: \_\_\_\_\_  
Email: \_\_\_\_\_

I would like to participate in the activities of the \_\_\_\_\_ ASHRAE Chapter.

School Name: \_\_\_\_\_

Street Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_

Country: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Expected Graduation Date: \_\_\_\_\_

Full time: ☐ Part time: ☐ Degree: \_\_\_\_\_

\*Classification: Freshman ☐ Sophomore ☐ Junior ☐ Senior ☐ Masters/PhD ☐

ASHRAE Student Membership \$20.00 USD

ASHRAE Handbook - Fundamentals ☐ IP ☐ SI

(you will receive the most current edition of Fundamentals)

More than 900 pages of HVAC&R technical information and it includes the CD! (List Price \$195)

Student Member Price: \$49.00 USD \$ \_\_\_\_\_ USD

Total \$ \_\_\_\_\_ USD

\*Additional books are available at [ashrae.org/studentbookstore](http://ashrae.org/studentbookstore)

\*Please allow up to 30 days to receive new member packets. For U.S. book orders, allow 3-5 business days from processing. For international locations and Canada, allow 7-10 business days from processing.

To receive your subscription to the ASHRAE Journal, please answer the following questions by entering the appropriate codes in the spaces provided.

Which best describes your firm? \_\_\_\_\_

11. Consulting Engineering

12. Architect/Architectural & Eng Services

15. Design/Build

21. Contractor

26. Property Mgmt & Dev

31. Industrial Facility

41. Commercial Facility

42. Government, Healthcare, Education

43. Utility

51. Manufacturer/HVAC&R Equipment

61. Manufacturer's Representative

62. Sales Engineering

71. Wholesaler or Distributor

83. Library

84. Technical, Professional

or Trade Association

86. Student \*\*\*

91. Other (Please Specify) \_\_\_\_\_

Which best describes your title? \_\_\_\_\_

B. President

C. Partner

D. Associate

E. Owner

F. Vice President

G. Vice President Eng. Chief Engineer

K. Design Engineer

L. Project/Application Engineer

O. Facility Engineer/Manager

P. Research/Development Engineer

R. Sales Engineer, Sales

S. Purchasing Agent

T. Draftsperson

U. Estimator

W. Technician

X. Instructor, Professor

Y. Student \*\*\*

Z. Librarian

ZZ. Other (Please Specify)

ASHRAE Society Dues include \$6.00 for ASHRAE Journal. This amount is not deductible from Membership dues.

\*\*Please complete the ENTIRE application to ensure accuracy. Incomplete applications will NOT be processed.\*\*

Method of payment: ☐ VISA / Master Card ☐ American Express ☐ Diner's Club ☐ Check or money order enclosed\*

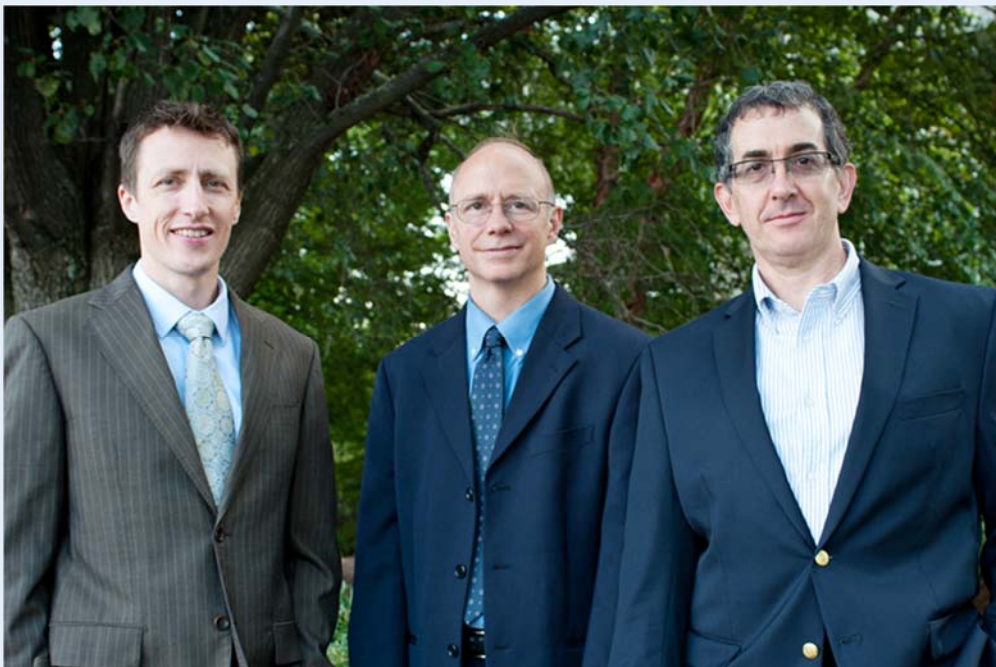
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Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name (as it appears on card): \_\_\_\_\_

\*Checks will be accepted in U.S and Canadian funds. Credit Card payments will be accepted in U.S. funds only.

## Coming April 2016 - Making Net Zero Net Positive: Solving the Efficiency & Cost Paradox.



Save the date for the April 21, 2016 ASHRAE Webcast - Making Net Zero Net Positive: Solving the Efficiency & Cost Paradox. This webcast will feature industry experts who will define the importance of, and why we should strive for, net zero in the built environment. Viewers will be able to identify behaviors that create more effective ownership, design and construction teams, and will recognize the value of a collaborative process in building design and the impact on costs. With a strong emphasis on real-world applications, the program will also discuss the primary technical and financial challenges in achieving net zero buildings, and where this design approach can best be applied.

*<https://www.ashrae.org> and select Memberships & Conferences, "WEBCASTS"*





## Tips for ASHRAE Scholarship Applicants

### Make sure ...

- You meet all applicable criteria
- You read the application carefully and answer all questions completely and honestly.
- The application and all required documents are submitted or postmarked on or before the applicable deadline.
- Your application is NEAT, legible (typed or handwritten clearly), and proper English (correct grammar and spelling) is used when responding to essay questions.
- To take time to submit a brief, non-required introductory cover letter
- You are clear and thorough when stating goals and financial need.
- You contact the nearest ASHRAE chapter for an interview with the Student Activities Chair or other officer to learn more about the Society.
- You find out if your school hosts an ASHRAE student branch.
- You contact ASHRAE headquarters if you have any questions and to ensure your application has been completed and submitted properly.



More information on the scholarship and details on how to apply can be found at [www.ashrae.org/scholarships](http://www.ashrae.org/scholarships).

# Get Your Company into the 2016 Buyers Guide Today!

What are the benefits to being in the ASHRAE Buyers Guide??

- **Publication of your business and services**
- **Attract new customers**
- **Generate visibility and awareness at ASHRAE participating events inside and outside of the industry**
- **Strengthen communications between, manufacturers, sales representatives, engineers who specify products and contractors who purchase / install those products**







## Rochester Chapter

### Article Details

- Not only limited to ASHRAE associated members
- Cost is \$125.00
- Checks accepted made out to ASHRAE Rochester Chapter or pay on website via PayPal
- May be color or B&W
- Size should be 8 ½ x 11 PDF format
- Updated on an annual basis

Visit the Rochester ASHRAE website to check out more or pay by PayPal!

Have Questions??

Contact: Marianne Schumacher  
585-217-3942



# 2016 ASHRAE PICNIC SPONSORSHIP FORM

Monday, May 9, 2016



Ravenwood  
Golf Course  
929 Lynaugh Road  
Victor, NY 14564  
11:00 AM – 4:30 PM - Golf  
4:30 PM - 8:00 PM - Picnic

Picnic: 4:30 PM-8:00 PM  
4:30 PM - 6:00 PM  
Cocktails and Hors d'oeuvres  
6:00 PM - 8:00 PM  
Dinner Catered By:  
Dinosaur Barbeque  
at Ravenwood Golf Club

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



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

**Attention: Kacie Hoffman**  
RF Peck Company, Inc.  
889 Atlantic Ave.  
Rochester, NY 14609

*Any questions, call Kacie at (585) 697-0836 ext. 105  
Email: [khoffman@rfpeck.com](mailto:khoffman@rfpeck.com)*

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

Company Name: \_\_\_\_\_  
OR

Individual Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: (Work) \_\_\_\_\_ (Home) \_\_\_\_\_

## Sponsorship Form



Sponsorship Name	X here for Sponsorship	Sponsorship Amt.
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 9, 2016**  
**ASHRAE Picnic / Golf Tournament**  
**To be held at**  
**Ravenwood Golf Course**

Reservation Deadline is... **April 29, 2016**  
 (There is a limited amount of tickets this year on a first come basis)

 <b>RAVENWOOD</b> <b>GOLF CLUB</b>		
<p align="center">Ravenwood Golf Course 929 Lynaugh Road Victor, NY 14564 Golf Registration 9:30 – 10:45 Juice, Scones and Coffee Served 11:00 am - Shotgun Start</p>	<p align="center"><b><u>Picnic: 4:30 PM-8:00 PM</u></b>          4:30 PM - 6:00 PM          Cocktails and Hors d'oeuvres          6:00 PM - 8:00 PM          Dinner Catered By:  <b>Dinosaur Barbeque</b>          at Ravenwood Golf Club</p>	<p align="center"><b><i>Four Man Scramble and Optional Skins Game.</i></b></p> <p><u>Golf includes:</u></p> <ul style="list-style-type: none"> <li>➤ Golf</li> <li>➤ Cart</li> <li>➤ Driving Range</li> <li>➤ Prizes</li> <li>➤ On course beverages and food at the turn</li> </ul>



**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 April 29, 2016 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) \_\_\_\_\_

<b>Entry Form</b>			
<b>Ticket Request Form</b>			
<b>Event</b>	<b>Fee Amount</b>	<b>No. Attending</b>	<b>Total</b>
Golf	\$90.00		\$
Picnic	\$50.00		\$
<b>OR:</b>			
Golf and Picnic <b>(SAVE \$10.00)</b>	\$130.00		\$



## February Keynotes

Catch up with other volunteers about their E-Week plans on the Chapter Chat forum, new on the [ASHRAExChange](#). Comment on articles, share best practices, ask questions.... It's just for ASHRAE chapter volunteers like yourself. Please make sure you login before you join the conversation.

### 55,000 Members - Thank You!

I want to sincerely thank all the chapter and regional officers that helped us reach our 2015 goal of 55,000 members. Thanks to your hard work and perseverance, we sailed past that goal and currently have 55,611! This is the highest number of members since 2006. But this is no time to rest on our laurels, let's continue to work hard and make 2016 the best year ASHRAE ever had! If you need any assistance, please let myself or your RVC know. We are here to support you! Again, great job! This is your achievement and you all should be very proud of the hard work you did.

Daniel Gurley  
ASHRAE Manager, Membership & Member Contact Center

### Legislatures Convene in Six More States

Lawmakers have convened in six more States over the past two weeks. The Government Affairs Staff will be monitoring bills of importance to ASHRAE in all 50 States and Congress and will provide information as we have it. Please follow [ASHRAE's Government Affairs Updates](#) to learn more.

### NEW in the ASHRAE Bookstore



This companion User's Manual to the 2014 edition of ASHRAE Standard 189.1 clarifies the intent and implementation of the standard by explaining the requirements and providing example applications. It is intended to help engineers, architects, and contractors understand and comply with Standard 189.1-2014 and to help code officials and others enforce the requirements of the standard. [Learn More>](#)

### ASHRAE Learning Institute

[Register Today](#) for ASHRAE's Spring Online Course Series.

#### 2016 Spring Online Courses:

- \$284 non-member / \$219 member (Two-part courses: \$484 non-member / \$359 member)
- Register by March 18<sup>th</sup> and Save!
- Earn 3-6 PDHs
- [See course listing](#)

#### HVAC Design Training:

- 2 courses, 5 days of instruction
- Level I - Essentials \$1,264 non-member / \$1,009 member
- Level II - Applications \$854 non-member / \$699 member
- [Register](#)

### [ASHRAExCHANGE](#)

Want to stay updated with ASHRAE instantly? Log onto to ASHRAExCHANGE to ask questions, discuss industry news and connect with other engineers!



# ASHRAE Learning Institute

## 2016 Spring Online Course Series

### 2 WAYS TO REGISTER

Take 3 or more courses and save 15% off registration!

**Internet:** [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses)

**Phone:** Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

**Price:** \$284 (\$219 ASHRAE Member); Two-part courses: \$484 (\$359 ASHRAE Member)

**Note:** You may register up to 24 hours prior to an online course. Courses are in US Eastern Time.

#### Combined Heat & Power: Creating Efficiency through Design & Operations

Mon, March 28, 2016 – 1:00 pm to 4:00 pm EDT

#### Commissioning Process & Standard 202

Wed, March 30, 2016 – 1:00 pm to 4:00 pm, EDT

#### IT Equipment Design Evolution & Data Center Operation Optimization

Wed, April 6, 2016 – 1:00 pm to 4:00 pm, EDT

#### Complying with Standard 90.1-2013: HVAC/Mechanical

Wed, April 13, 2016 – 1:00 pm to 4:00 pm, EDT

#### Laboratory Design: The Basics and Beyond

Mon, April 18, 2016 – 1:00 pm to 4:00 pm, EDT

#### Standard 188-2015 – Successfully Managing the Risk of Legionellosis

Mon, April 25, 2016 – 1:00 pm to 4:00 pm, EDT

#### Air-to-Air Energy Recovery Applications: Best Practices

Wed, April 27, 2016 – 1:00 pm to 4:00 pm, EDT

#### Fundamental Requirements of Standard 62.1-2013

Mon, May 2, 2016 – 1:00 pm to 4:00 pm, EDT

#### Variable Refrigerant Flow System Design & Applications

Mon, May 16, 2016 – 1:00 pm to 4:00 pm, EST

**The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEU/PDH credits.**

#### Exceeding Standard 90.1-2013 to Meet LEED® Requirements

Part 1: Mon, April 11, 2016 – 1:00 pm to 4:00 pm, EDT

Part 2: Wed, April 20, 2016 – 1:00 pm to 4:00 pm, EDT

#### Operations & Maintenance of High-Performance Buildings

Part 1: Tue, May 17, 2016 – 1:00 pm to 4:00 pm, EDT

Part 2: Wed, May 18, 2016 – 1:00 pm to 4:00 pm, EDT

## ASHRAE HVAC Design Training

### 2 Courses, 5 Days of Intense Instruction

Atlanta • Cleveland • Halifax • Hong Kong • Kuala Lumpur

Miami • Minneapolis • San Francisco • Vancouver

#### HVAC Design: Level I – Essentials - Registration is \$1,264 (\$1,009 ASHRAE Member)

Gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

#### HVAC Design: Level II – Applications - Registration is \$854 (\$699 ASHRAE Member)

*HVAC Design: Level II — Applications* provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit [www.ashrae.org/hvactraining](http://www.ashrae.org/hvactraining) to register.



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# News

1791 Tullie Cir. NE | Atlanta, Ga. 30329-2305 | 404-636-8400 | [www.ashrae.org](http://www.ashrae.org)

For Release:  
Feb. 3, 2016  
Contact: Jodi Scott  
Public Relations  
678-539-1140  
[jscott@ashrae.org](mailto:jscott@ashrae.org)

## ASHRAE Announces Call for Papers for 2017 Winter Conference, Jan. 28–Feb. 1, Las Vegas

ATLANTA – ASHRAE has announced a call for papers for its 2017 Winter Conference in Las Vegas, Nev., Jan. 28-Feb. 1, 2017.

The conference seeks papers that address the new conference tracks and other prevailing issues in the industry.

“Today’s HVAC&R profession is facing challenges unlike those from the past,” Leon Shapiro, Conference chair, said. “The rapidity with which technology advances the modeling, design, equipment, systems, construction and operation of the buildings we deal with, along with the speed with which climate change is significantly altering the conditions around which we design, are creating problems for today’s ASHRAE members. The conference seeks to address those problems.”

The conference seeks papers on new tracks that address the changes in technology:

- The relationship between water usage and energy systems becomes more prominent as the demands of development and over use as well as climate change continue to drain resources. The **Water-Energy Nexus** track highlights research in this area. It also explores technologies and designs intended to reduce the gap between energy and water efficiency.
- The **Advances in Mission Critical Design and Operation** track highlights developments in mission critical facilities and the challenges of meeting increasing load demands while minimizing the impact on energy and water usage.
- Climate change will have an increasing effect on the design and operation of the built environment. The **Climate Change and Its Effects on HVAC&R Design and Technologies** track focuses on methods to increase building resiliency and facilitate climate adaptation.
- **Energy Efficient Industrial Buildings and Life Safety** spotlights energy efficiency in industrial buildings and how it can be achieved without compromising life safety considerations.

In addition, the conference seeks papers on **Fundamentals and Applications, HVAC&R Systems and Equipment, Commercial and Industrial IAQ** and **Building Operation and Performance: Meeting the Modeling Expectations**.

“The industry’s goal is to design, build and operate buildings today that are efficient and sustainable, and that are intended to remain efficient and sustainable into the future,” Shapiro said. “How do you accomplish that if tomorrow promises to be notably different than today? No sensible design decisions can be made without taking into account not only the world as it has been or is, but also the world as it will be. The 2017 ASHRAE Winter Conference attempts to bridge this design challenge through the tracks and papers and programs accepted for the program.”

***Continued on next page***

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For Release:  
Feb. 3, 2016  
Contact: Jodi Scott  
Public Relations  
678-539-1140  
[jscott@ashrae.org](mailto:jscott@ashrae.org)

## ***Continued from previous page***

ASHRAE offers two types of paper submissions:

Conference Papers: Abstracts due March 14, 2016. Upon acceptance, papers will be due July 6, 2016. These “final” papers undergo a single-blind review, are submitted as a PDF and have an eight single-spaced page maximum length.

Full Technical Papers, which are due April 18, 2016. Papers submitted for review must be both technically accurate and clearly written. These papers undergo a rigorous double-blind review and can be a maximum of 30 double-spaced pages.

To submit a Conference paper abstract or a technical paper and for more information about the conference, visit [www.ashrae.org/lasvegas](http://www.ashrae.org/lasvegas).

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 54,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow’s built environment today. More information can be found at [www.ashrae.org/news](http://www.ashrae.org/news).

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For Release:  
Feb. 5, 2016  
Contact: Jodi Scott  
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678-539-1140  
[jscott@ashrae.org](mailto:jscott@ashrae.org)

Editors Note: Photographs from the Conference are available upon request.

## Attendance High for ASHRAE Winter Conference, AHR Expo

ATLANTA – High attendance was reported for the recent ASHRAE Winter Conference and AHR Expo, in Orlando. The 2016 ASHRAE Winter Conference, was held Jan. 23-27, with the AHR Expo held Jan. 25-27.

The Winter Conference had more than 3,000 attendees. Attendance this year was higher than the past eight Winter Conferences, except Las Vegas 2011. Attendees came from 67 countries. The 2016 AHR Expo, co-sponsored by ASHRAE, set a record by being the first show outside of Chicago to break 400,000 square feet of exhibitor space. The Expo featured 2,063 exhibitors, including 561 deemed international. The total attendance for visitors was 42,672, with total attendance of visitors and exhibitors at 60,926.

Best sellers at the ASHRAE Bookstores included the Pocket Guide I-P; “HVAC Design Manual for Hospitals and Clinics,” 2<sup>nd</sup> edition; “Cold-Climate Buildings Design Guide,” Guideline 0-2013, *The Commissioning Process*; Standard 188-2015, *Legionellosis: Risk Management for Building Water Systems*; “HVAC Simplified,” and the “Design Guide for Tall, Super tall, and Megatall Building Systems.”

The Conference’s Technical Program ranked high in attendance, with new tracks focused on design-build practices and residential systems. Individual top-attended sessions in the technical program were related to Cooling with the Sun: Solar Thermal Cooling; Energy Submetering Fundamentals: Benchmarking, Baselineing and Beyond!; The Impacts of Operable Windows on Building Performance; Highlights from the 24th IIR International Congress of Refrigeration; The Internet of Everything: How Smart and Connected Sensors Will Transform the HVAC Service Industry; HVAC Pumps: New ECM Motor and Control Technologies; Indoor Air Quality and Energy Efficiency: Measurement and Analysis of Multiple Approaches; Back to Basics: The Science, Application and Art of Load Calculations; Integrating Cutting-Edge Technology: Renewable Energy and Thermal Energy Storage; and Hydronic Systems: Doing More with Less.

Also offered were a combined 20 Professional Development Seminars and Short Courses from ASHRAE Learning Institute. The most popular Short Course offerings were Variable Refrigerant Flow Systems; Complying with Standard 90.1: HVAC/Mechanical; and Designing High-Performance Healthcare HVAC Systems. The Professional Development Seminars that drew the highest number of registrations were Energy Modeling Best Practices & Applications; Commercial Building Energy Audits; and Commissioning Process for New & Existing Buildings.

The 2016 ASHRAE Annual Conference takes place in St. Louis, Mo., June 25-June 29, 2016. The 2017 ASHRAE Winter Conference takes place Jan. 28-Feb. 1, Las Vegas, Nev., with the AHR Expo being held Jan. 30-Feb. 1.

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 54,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow’s built environment today. More information can be found at [www.ashrae.org/news](http://www.ashrae.org/news).

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For Release:  
Feb.24, 2016  
Contact: Jodi Scott  
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678-539-1140  
[jscott@ashrae.org](mailto:jscott@ashrae.org)

## **New Course on Variable Refrigerant Flow Offered in ASHRAE Spring Online Courses**

ATLANTA – A new course, “Variable Refrigerant Flow System Design & Application,” is one of 11 offerings in ASHRAE’s Spring Online Course series.

Variable refrigerant flow (VRF) systems are now being applied in a range of building types across North America. Benefits of VRF include zoning applications, variable capacity, distributed control, low operating sound, simultaneous heating and cooling, effective energy usage, quick installation, low ambient operation and low maintenance costs.

The course, which takes place May 16, provides non-manufacturer specific concepts of how to apply VRF systems to buildings. It will supplement the fundamental technology introduction presented in the 2012 ASHRAE Handbook, HVAC Systems and Equipment, offering the consulting engineers who already have a basic knowledge of VRF technology.

Eleven online professional development seminars focused on commissioning, environmental quality, energy efficiency, HVAC applications, and standards and guidelines are being offered this fall by the ASHRAE Learning Institute (ALI).

Participants can access these instructor-led courses from anywhere with an Internet connection, and earn continuing education units/professional development hours for each course completed.

All courses provide professional development through in-depth information that is timely, practical and advanced beyond a fundamental level. Online courses are offered every spring and fall.

***Continued on next page***

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For Release:  
Feb.24, 2016  
Contact: Jodi Scott  
Public Relations  
678-539-1140  
[jscott@ashrae.org](mailto:jscott@ashrae.org)

## ***Continued on next page***

For pricing or to register, visit [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses). The courses offered this fall cover a variety of topics relevant to today's built environment, including:

### **Commissioning**

- Commissioning Process & Standard 202, March 30

### **Energy Efficiency**

- **Energy Efficiency** Combined Heat & Power: Creating Efficiency through Design & Operations, March 28
- IT Equipment Design Evolution & Data Center Operation Optimization, April 6

### **HVAC Applications**

- Air-to-Air Energy Recovery Applications: Best Practices, April 27
- Laboratory Design: The Basics and Beyond, April 18
- Operation & Maintenance of High-Performance Buildings, May 17 and 18
- Variable Refrigerant Flow System Design & Applications, May 16

### **Standards & Guidelines**

- ASHRAE Standard 188-2015 – Successfully Managing the Risk of Legionellosis, April 25
- Complying with Standard 90.1-2013: HVAC/Mechanical, April 13
- Exceeding Standard 90.1-2013 to Meet LEED®, April 11 and 20
- Fundamental Requirements of Standard 62.1-2013, May 2

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 54,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today. More information can be found at [www.ashrae.org/news](http://www.ashrae.org/news).