

ASHRAE Rochester



VOLUME 10, ISSUE 4

DECEMBER, 2015

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December ASHRAE Meeting

Topic: Control Systems – Ways to Identify Performance Issues **(PDH Approved)**

Presenter: Day Automation

When: Monday December 14, 2015

Time: 12 PM with Buffet Lunch Served

Where: Mario's Italian Steakhouse

2740 Monroe Ave, Rochester

Cost: \$25.00



Please RSVP by Thursday, December 10th to Tim Duprey
tim.duprey@pres-services.com or tduprey@rochester.rr.com

Statements made in this publication are not expressions of the Society or of the chapter and may not be reproduced without special permission of the chapter.



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Buyer's Guide
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ASHRAE 2015-2016 Meeting Schedule			
Date	Event	Theme	Location
Monday, 12/14/2015	Control Systems - Ways to Identify Performance Issues <i>(presented by Day Automation)</i>	<i>(PDH Pending)</i>	Mario's @ 12:00 PM
Monday, 1/11/2016	Operation and Applying Drives <i>(presented by Kevin Diehl - Yasawa America, Inc.)</i>	<i>(PDH Pending)</i>	TBD @ 12:00 PM
Friday, 2/5/2016	Annual ASHRAE Valentines Dinner Dance <i>(Strathallan)</i>	---	Strathallan @ 7:00 PM
Monday, 2/8/2016	Building Load Analysis <i>(presented by Robert Feduik, Carrier Corporation)</i>	Membership Promotion	TBD @ 12:00 PM
Monday, 3/14/2016	Chapter Facility Tour <i>(University of Rochester - Strong Hospital Central Plant)</i>	---	Strong Hospital @ 5:00 PM
Monday, 4/11/2016	Retro-Commissioning Existing Buildings <i>(presented by Al Rodgers & Ron Sanger)</i>	<i>(PDH Pending)</i>	TBD @ 12:00 PM
Monday, 5/9/2016	Annual ASHRAE Golf Outing and Picnic <i>(Ravenwood Golf Course)</i>	---	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).

ASHRAE Region I - Chapters Regional Conference (CRC)		
Date	Event	Location
8/18/16 - 8/20/16	<u>SAVE THE DATE</u> - 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 November Message

December President's Message:

We had a great turnout for the November ASHRAE meeting. I would like to thank ASHRAE Distinguished Lecturer, Mr. **Brian Monk** for his informative and educational presentation on Environmental Quality on High Performance Buildings. ASHRAE Region I DRC (Director & Regional Chair), Mr. **Bill Walter**, visited our Chapter for this meeting. Bill has been tasked by President Mr. David Underwood with reviewing strategies of how other organizations link the local chapters with the Region and Society, and has asked us for our feedback on how we feel we can do better at this. Any recommendations that you have on how other societies operate and/or how we can better connect the Chapter with the Society would be appreciated. Please contact me at cmwalter@trane.com and I will relay this information back to Bill. Lastly, our November meeting was a Resource Promotion event where the Rochester Chapter recognized our major donors from last year: Mr. **Richard Gray** of **Gray Metal Products Inc.**, and **RP Fedder Corp.** **Gray Metal Products** will also be recognized at the ASHRAE Winter Conference, which will be held in Orlando, FL on January 23-27, 2016, for their generous level of continued support to our local Chapter. The contributions of these major, as well as all donors, greatly appreciated and helps ASHRAE Research continue. More information on the ASHRAE Winter Conference can be found at <https://www.ashrae.org/membership--conferences/conferences/2016-ashrae-winter-conference>



Christina Walter, 2015-2016 President

We hope to see you at our December meeting, as we welcome Day Automation to present on Control Systems – Ways to Identify Performance Issues. Come and enjoy *Making Connections!*

Please continue to check out our website at www.rochester.ashraechapters.org for information on upcoming chapter meetings, current officer list and contact information, our current newsletter and more! Or if Facebook is your preferred method of communication take a moment to 'like' us at www.facebook.com/#!/ashraerochester.

Christina Walter
2015-2016 President - Rochester Chapter

Highlights from November ASHRAE Meeting



(Above) Brian Monk, ASHRAE Distinguished Lecturer, leads a discussion on Environmental Quality in High Performance Buildings.



Region I Dignitaries (left to right) Pete Oppelt, RVC Programs Region I; Steve Sill, RVC Membership Promotion Region I; Bill Walter, DRC Region I; Chris Walter, Rochester Chapter President; Brian Monk, ASHRAE Distinguished Lecturer

December 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.

December ASHRAE Meeting << PDH APPROVED >>

Date: Monday, December 14th, 2015

Location: Mario's Italian Restaurant

Time: 12:00 PM Lunch Buffet ... Presentation to start approx. 12:30pm

Cost: \$25.00

Speaker: Day Automation

Topic: Control Systems, Ways to Identify Performance Issues

Note: (1) PDH

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 Thursday December 10th to Tim Duprey
Phone: 585.330.6430 or e-Mail ... ASHRAERochester@gmail.com, tim.duprey@pres-services.com or
tduprey@rochester.rr.com.



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.

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

Chapter:

Fiscal Year:

▶ Chapter Operations	Par: 1000	Min Points: 400	Total Points: 300
▶ 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: 0
▶ Membership Promotion	Par: 800	Min Points: 500	Total Points: 385
▶ RP	Par: 1050	Min Points: 800	Total Points: 155
▶ 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. Keep up to date with current events and photos from recent meetings.

Rochester Chapter

Committee Chairs Updates

Research Promotion

Our 50/50 winner from the October meeting was Tom Piekunka, who donated his \$41 winnings back to the ASHRAE Rochester Chapter to support YEA. The winner from the November meeting was Steve Maybeck, who also donated his \$47 winnings back to ASHRAE Rochester.

Young Engineers in ASHRAE

Dear YEA Members:

Registration for the Spring 2016 YEA Leadership Weekend is now open! Visit www.ashrae.org/YLW to register and for more information.

The event is scheduled for February 19-21, 2016 in Austin, Texas. Registration is \$400 and includes hotel accommodations for Friday and Saturday, meals during the event (dinner on Friday, all meals on Saturday, and breakfast and lunch on Sunday), and all necessary materials and resources. Space is limited to the first 30 registrants.

Sincerely,
Matt Kremers
YEA Chapter Chair

Board of Governors Meeting Minutes

Rochester Chapter - ASHRAE

Board of Governors Meeting

November 9th, 2015 7:30 AM

Location: Marios, 2740 Monroe Avenue
Rochester, NY 14618

President / CRC Alternate	Christina Walter	X
President Elect / Program	Jeff Close	X
Secretary	Bill Clark	
Treasurer	Paul Kenna	X
Immediate Past President / CRC Delegate	Ed Burns	X
Board of Gov. (1)	Steve Dear	X
Board of Gov. (1)	Sam Scorsone	
Board of Gov. (2)	Branden Farnsworth-Weinblatt	
Board of Gov. (2)	Tom Streber	X
Board of Gov. (3)	Mike Benedict	X
Board of Gov. (3)	Scott Edwards	
Attendance	Tim Duprey	X
Historian	Lee Loomis	
Membership Promotion	Jake Hall	X
Newsletter Editor	Scott Edwards	
Resource Promotion	Matt Devlin	X
Awards	Al Rodgers	
CTTC	Jeff Wiedrick	X
Education	Bill Murray	
Publicity	Mark Kukla	
Website	Kevin Wind	
YEA Chair	Matt Kremers	X
Student Activities	Chris Lukasiewicz	X
Nominating (2 nd Past President)	Michelle Sommerman	
Picnic/Golf Chair	Jim Browe	X
Buyers Guide	Marianne Schumacher	X
Valentine's Dinner Dance	Jody M. McGarry	
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: 10:00 AM

Meeting Minutes:

1. Call to Order Chris Walter
 2. Roll Call Bill Clark
 3. President Elect / Program Jeff Close
 - See newsletter or RES for meeting schedule
 4. Approval of previous meeting's minutes All
 - Motion to accept by Paul Kenna
 - Second by Steve Dear
 5. Treasurer's Report 2015/2016 Paul Kenna
 - Paul distributed the Treasurer's Report dated 11-9-2015
 6. DRV Visit by Bill Walter
 - As a Region I director Bill's focus this year is linking society with members.
 7. Committee Reports
 - Technology Transfer Committee Jeff Wiedrick
 Program/Tech Sessions
 Technology Transfer
 - 2015 Awards submitted - received Region I award
 - Submissions for 2016 due in April. Jeff to reach out to individuals about specific projects.
 - Membership Jacob Hall
 - 244 members, 13 outstanding renewals.
 - Student Activities Chris Lukasiewicz
 - RIT student applying for a scholarship
 - MCC - Bill Horton ready to sit down and discuss a revival of student chapter.
 - MCC - Has an open house for students this Thursday night @ 6:30pm if ASHRAE is interested in setting up a table. Chris to send Mike Benedict & Tom Streber information to attend.
 - Matt Kremers has a connection at RIT and offered to set-up a lunch presentation.
 - Education Bill Murray
 - DEC presentations to be submitted for PDH approval this week.
 - YEA Matt Kremers
 - Planning meeting on 10/23 = talked about changes to increase attendance. Discussing social events (i.e. sporting event, go-karting, etc.) to promote interactions. Discussing possible field visits to local and out of town opportunities (talk with other chapters about a YEA joint meeting). Possible steam class.
 - Planning a FE study group. Possibly reaching out to former member Joel Erway to support.
 - Brandon volunteered to teach and host tech sessions - Airside fundamentals.
 - Awards & Recognition Al Rodgers
 - Encourage members to go on ashrae.org and update your bio.
 - Resource Promotion Matt Devins
 - Nov. 15th = Full Circle Donations
 - RP Recognition Meeting = NOV
-

Board of Governors Meeting Minutes

- Refrigeration Mike Nohle
 - Sam Scorsone to join the Refrigeration committee.
 - Chapter Tech Energy & Govt Activities Tom Burke
 - We are looking for a few people to create a TEGA committee.
 - Tom is going to look out to Henry Manicheck.
 - Newsletter Scott Edwards
 - No report, newsletter updates to be submitted by 11/30.
 - Buyers Guide Marianne Schumacher
 - Cross referenced current buyers guide with online version.
 - Inserting an article to the newsletter and putting information on website.
 - Attendance Tim Duprey
 - OCT attendees = 58
 - NOV projected = ~63
 - Historian Lee Loomis
 - Add article in newsletter along with photos of this years historian exhibit.
 - Publicity Mark Kukla
 - Sent some chapter photos to society.
 - Website Kevin Wind
 - Looking into creating a shortcut to send out invitations or save the date for meetings / events.
 - Steve Dear to evaluate website to society standards and monitor chapter is up to date.
 - Nominating Ed Burns
 - Engineering Symposium planning underway. Ed will be reaching out to local P.E.'s for recommendations for the (2) presentations ASHRAE sponsors.
 - CRC 2016 General Chair Jim Browe
 - All venues are booked. Penthouse for Thursday night. Hyatt for Friday night.
 - (2) Companion tours booked. Family = Strong Museum of Play. Adults = Wine and Culinary. Center, Wine Tours, and Canandaigua Downtown shopping.
 - Budget set at 90%. Need to fill in miscellaneous expenses.
 - Sponsorship solicitation is underway. Looking to have multiple levels.
8. Old Business Campus
- Audit Committee - Fall (Barb Herl & Steve Maybeck)
 - Log PAOE points in monthly - **Chris to send out instructions**
 - Each person should create their own MBO and goals for this year. **Due ASAP to Chris.**
 - Create/Update your Biography on www.ASHRAE.org website
 - CRC 2016 in Rochester, August 18-20
9. New Business
- DEC is our last meeting at Mario's due to them closing. Need to identify potential locations. Tim to send out specifications of what we are looking for with a similar cost range.
 - Grass Roots community project possibilities, STEM Outreach
 - i. Reach out to Rob Hudson about local STEM day.
10. Next BOG meeting: Thursday December 10th, 10:00 am @ Trane
11. Adjourn 10:58 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 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 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.

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 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: _____

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.

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

*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.

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*

Card Number: _____ Expiration Date _____ CW No. _____ Amount: _____

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.

ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference in Orlando, FL

2 WAYS TO REGISTER

Internet: www.ashrae.org/orlandocourses

Phone: Call 1-800-527-4723 (US and Canada) or 404-836-8400 (worldwide)

Full-Day Professional Development Seminars

\$485/\$395 ASHRAE Member – Earn 6 PDHs/AIA LUs or .8 CEUs

Commercial Building Energy Audits
Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

Commissioning Process in New & Existing Buildings
Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

Designing HVAC Systems to Control Noise & Vibrations
Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

Energy Modeling Best Practices and Applications
Tuesday, January 26, 2016 – 9:00 a.m. to 4:00 p.m.

Operations & Maintenance of High-Performance Buildings
Tuesday, January 26, 2016 – 9:00 a.m. to 4:00 p.m.

Half-Day Short Courses

\$159/\$119 ASHRAE Member – Earn 3 PDHs/AIA LUs or .3 CEUs

Laboratory Design: The Basics and Beyond
Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

Troubleshooting Humidity Control Problems
Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

Understanding & Designing Dedicated Outdoor Air Systems
Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

Variable Refrigerant Flow System Design & Applications **NEW!**
Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

Air-to-Air Energy Recovery Applications: Best Practices
Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

Applications of Standard 62.1-2013
Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

Building Demand Response & the Coming Smart Grid
Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

Energy Management Best Practices
Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

Avoiding IAQ Problems
Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

Commissioning Process & ASHRAE Standard 202
Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

Complying with Standard 90.1-2013: HVAC/Mechanical
Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

Evaluation and Control of Legionella in Building Water Systems **NEW!**
Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

Exceeding Standard 90.1-2013 to Meet LEED Requirements
Monday, January 26, 2016 – 9:00 a.m. to 12:00 p.m.

IT Equipment Design Evolution & Data Center Operation Optimization
Monday, January 26, 2016 – 9:00 a.m. to 12:00 p.m.

Designing High-Performance Healthcare HVAC
Monday, January 26, 2016 – 1:00 p.m. to 4:00 p.m.

ASHRAE HVAC Design Training

2 Courses, 5 Days of Intense Instruction

Atlanta • Halifax • Hong Kong • Houston

Kuala Lumpur • Miami • Minneapolis • Vancouver

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

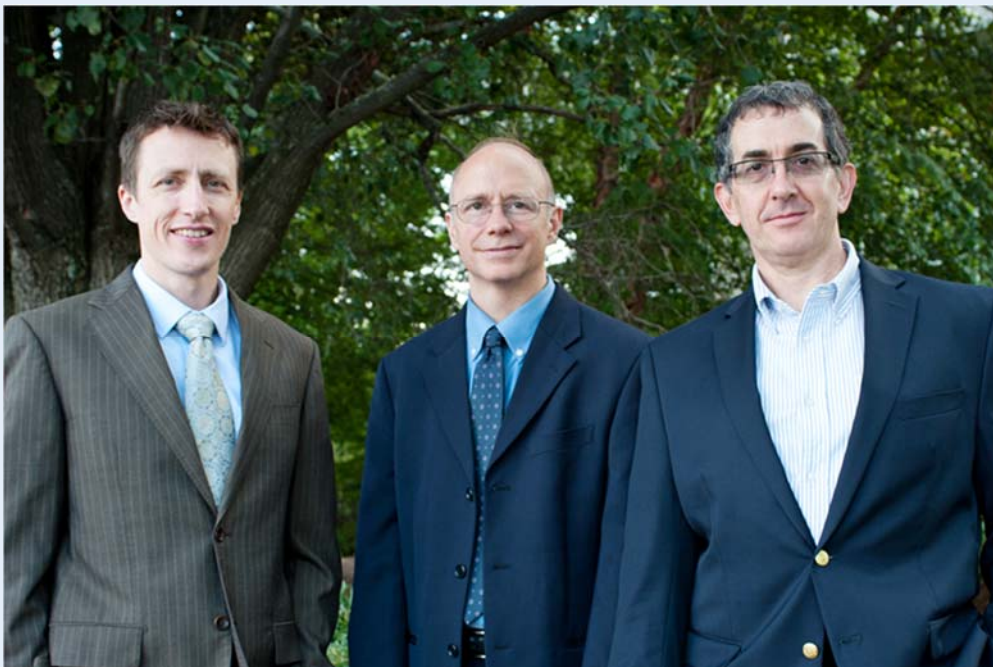
Gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters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

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"

2016 ASHRAE Winter Conference



Jan. 23–27 | Orlando Hilton | Orlando, Fla.

*New Technical Program Tracks, Networking,
World's Largest HVAC&R Marketplace*

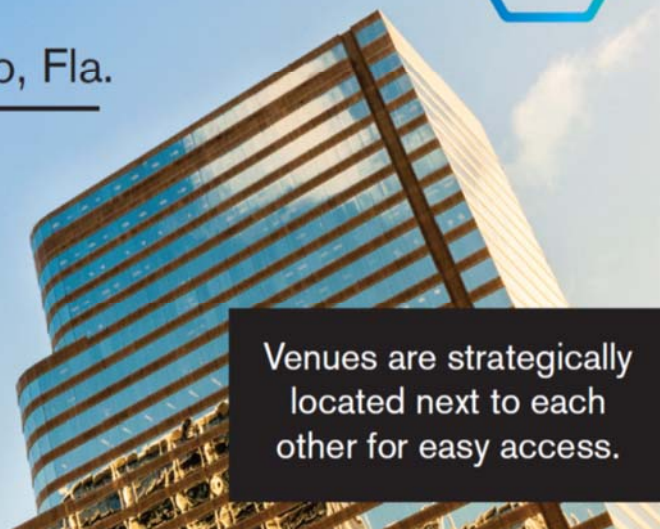
Special first time attendee registration fee available! Low, early-bird registration rates end Nov. 2. Register early! Registration to the ASHRAE Winter Conference includes free access to the AHR Expo!



2016 AHR Expo

Jan. 25–27 | Orange Co.
Conv. Center | Orlando, Fla.

Venues are strategically located next to each other for easy access.



2016 AHR EXPO[®] JAN 25-27 ORLANDO

ORANGE COUNTY CONVENTION CENTER | CO-SPONSORS  



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.

 Like us on Facebook |
  Follow us on Twitter |
  Join the conversation on ASHRAEExchange



News

1791 Tullie Cir. NE | Atlanta, Ga. 30329-2305 | 404-636-8400 | www.ashrae.org

For Release:
Nov. 5, 2015

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New Course on Legionella Standard among ASHRAE 2016 Winter Conference Courses

ATLANTA – Guidance on how to reduce the risk of Legionnaires' Disease via a recently published standard will be shared in a new course from ASHRAE at its 2016 Winter Conference. The course is one of 20 courses being presented at the Conference and AHR Expo. "We've already seen the real-life application of this standard when sections of it were adopted by the New York City Council following a deadly outbreak there," Bill Pearson, course instructor who serves on the Standard 188 committee. "This course is designed to help prevent future outbreaks by showing the industry how to navigate the standard."

The Conference takes place Jan. 23-27, Orlando Hilton, while the ASHRAE co-sponsored AHR Expo takes place Jan. 25-27, next door at the Orange County Convention Center. To register for the ASHRAE Conference, which includes free access to the Expo, visit www.ashrae.org/orlando.

ASHRAE Learning Institute (ALI) is offering 20 high-quality, authoritative Professional Development Seminars and Short Courses. ALI courses provide training with real-world experiences for immediate application. Attendees can earn continuing education credits. For more information or to register, visit www.ashrae.org/orlandocourses.

The new half-day Short Course, ASHRAE Standard 188-2015 – Successfully Managing the Risk of Legionellosis, focuses on ANSI/ASHRAE Standard 188-2015, *Legionellosis: Risk Management for Building Water Systems*, which establishes the minimum legionellosis risk management requirements for the design, construction, installation, commissioning, operation, maintenance and service of centralized building water systems and components. Michael Patton, a member of the Standard 188 committee, also is an instructor of the course.

Attendees will learn how to use and comply with the standard; where Legionella propagates and who is at high risk for legionellosis; how to create a workable Legionella water management plan; and the responsibilities of project engineers and designers.

The five full-day Professional Development Seminars being offered are:

- Commercial Building Energy Audits
- Commissioning Process in New & Existing Buildings
- Designing HVAC Systems to Control Noise & Vibration
- Energy Modeling Best Practices and Applications (Co-sponsored by IBPSA-USA)
- Operations and Maintenance of High-Performance Buildings

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The 15 Half-Day Short Courses are:

- Laboratory Design: The Basics and Beyond
- Troubleshooting Humidity Control Problems
- Understanding & Designing Dedicated Outdoor Air Systems
- Variable Refrigerant Flow System Design & Application
- Air-to-Air Energy Recovery Applications: Best Practices
- Application of Standard 62.1-2013 (ANSI/ASHRAE Standard 62.1-2010, Ventilation for Acceptable Indoor Air Quality): Multiple Spaces Equations & Spreadsheets
- Building Demand Response & the Coming Smart Grid
- Energy Management Best Practices
- Avoiding IAQ Problems
- Commissioning Process & ASHRAE Standard 202 (ANSI/ASHRAE Standard 202-2013, Commissioning Process for Buildings and Systems)
- Complying with Standard 90.1-2013 (ANSI/ASHRAE/IES Standard 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings*): HVAC/Mechanical
- Evaluation and Control of Legionella in Building Water Systems
- Exceeding Standard 90.1-2013 to Meet LEED Requirements
- IT Equipment Design Evolution & Data Center Operation Optimization
- Designing High-Performance Healthcare HVAC Systems

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ASHRAE Announces Recipients of Student Design Competition; Applied Engineering Challenge

ATLANTA – Heat – whether in designing a building in Qatar or a temporary structure for heat illness victims – was the focus of two ASHRAE competitions challenging students in their engineering skills.

The 2015 Design Competition focused on a three-story classroom and office building in Doha, Qatar, while for the Applied Engineering Challenge, students were required to design a collapsible portable conditioned shelter for treatment of heat illness victims. Thirty-nine teams representing 10 countries entered the events.

First place recipients in the HVAC System Selection are from the University of Nebraska-Lincoln. Team members are Brianna Brass, currently seeking a Master's of Architectural Engineering degree, University of Nebraska-Lincoln; Matthew Easlon, Feinschule Hagwon, Gwangju, Korea; Mary Kleinsasser, currently seeking a Master's of Architectural Engineering degree, University of Nebraska-Lincoln; Ben MacKenzie, mechanical engineering intern, Affiliated Engineers, Madison, Wis.; and Rachel Obenland, currently seeking a Master's of Architectural Engineering degree, University of Nebraska-Lincoln. The faculty advisor is David P. Yuill, Ph.D., P.E., while industry advisors are Joe Hazel, P.E., HFDP, Specialized Engineering Solutions, Omaha, Neb., and Dan Karnes, Leo A. Daly, Omaha, Neb.

After comparing HVAC system options, the team chose a water source heat pump system utilizing a closed seawater loop field. The system had the lowest life cycle cost of the three systems considered. The seawater loop field provides a sustainable energy source with a low environment impact. Comfort and indoor environmental quality are easily maintained due to the adjustability of the system within the building.

The system showed a 44 percent energy improvement over the baseline. It is projected to cost \$3.8 million over a 50 year period, which is \$695,000 less than a variable air volume air handling system with thermal ice storage option and \$220,600 less than fan coil units with a dedicated outside air system and thermal ice storage option.

First place recipients in the HVAC Design Calculations also are from the University of Nebraska-Lincoln. Team members are Kristin Hanna, currently seeking a Master's of Architectural Engineering degree, University of Nebraska-Lincoln; Garrett Johnson; Mark Wilder, mechanical intern, M.E. Group, Omaha, Neb. The faculty advisor is David Yuill, Ph.D., P.E.

To address the peak cooling load of 157 tons, students designed a thermal ice storage system, which allows the chiller size to be reduced to 100 tons while still meeting load. Although the ice storage system adds initial cost, it is shown to reduce life cycle cost because of the reduction in initial cost for the chiller and reduction of energy used during peak demand hours throughout the cooling season.

The team also designed a creative condenser water heat rejection approach, using several decorative fountains on the school grounds. The approach is unusual but has been implemented in the Museum of Islamic Art in Doha. Heat and mass transfer calculations show that a total of 240 square meters of fountains will be required.

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First place in the category of Integrated Sustainable Building Design goes to a team from Portland State University. Team members are Krestina Aziz, architectural designer, Otak, Portland, Ore.; Adam Buchholz, estimator, Johnson Air Products, Portland, Ore.; Nicole Dunbar, mechanical designer, Mazzetti Inc., Portland, Ore.; Lee H. Han, mechanical engineer, PAE Consulting Engineers, Seattle, Wash.; Joel Joiner, project manager, Hydro-Temp Mechanical, Wilsonville, Ore.; Osman Sarper Kucuk; Blake Reynolds, mechanical designer, Interface Engineering, Portland, Ore.; Natalie Sherwood, mechanical designer, Interface Engineering, Portland, Ore.; Huy Tran, CLEARResult, Portland, Ore.; and Alex Wilson, graduate student, Portland State University. The faculty advisor is Huaifen Hu, Ph.D.

The team worked to integrate site location, building orientation, envelope components and mechanical systems to achieve a building approaching net zero energy. The building site was chosen on the basis of wind direction, public transportation and proximity to the Persian Gulf to take advantage of any naturally cooled air. For mechanical system design, they chose a combination of radiant beams with a dedicated outdoor air system, energy recovery ventilators and thermal storage.

Low flow plumbing was selected to reduce the building's reliance on the energy intensive desalinated water available in Doha. Shading and orientation also played an important role due to the high solar gain the region. Solar generation was chosen for a source of renewable energy.

For the Applied Engineering Challenge, students were required to design a collapsible portable conditioned shelter that can be assembled in the field to assist in the treatment of a victim of heat illness, including heat exhaustion and heat stroke. The first place Applied Engineering Challenge recipients are from California Polytechnic State University, San Luis Obispo: Miren Aizpirtarte, project engineer, Critchfield Mechanical Inc., San Jose, Calif.; Cinthya Mendez, mechanical engineer, Western Allied Mechanical, Menlo Park, Calif.; Julia Stone, mechanical facilities engineer, Intel, Chandler, Ariz.; and Willis Tang, design engineer, AC-CO Engineered Systems, Glendale, Calif. Their faculty advisor is Jesse Maddren, Ph.D., P.E.

The team chose a pentagonal structure with an airbed and chilled pad inside. The structure was cooled by a portable air-conditioning unit with an evaporative cooling option for dry climates. The tent walls, doors and roof are thinly insulated, and also feature air gaps and layers of nylon shading material. There also is a clear plastic observation window.

The portable, conditioned structure will effectively treat victims of heat exhaustion, heat cramps and heat rash on job sites. Design criteria were developed to ensure that construction workers, who are the target audience, would be comfortable in the structure for an extended period of time.

The projects will be shared at the 2016 ASHRAE Winter Conference, Jan. 23-27, Orlando Hilton, Orlando, Fla. Also taking place at that time is the ASHRAE co-sponsored AHR Expo, Jan. 25-27, Orange County Convention Center, Orlando.

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ASHRAE and IBPSA-USA SimBuild 2016 Conference Announces Call for Presenters

ATLANTA – The ASHRAE and IBPSA-USA SimBuild 2016: Building Performance Modeling Conference has announced a call for presenters.

The co-organized conference takes place Aug. 10-12, 2016, Salt Lake City, Utah. To submit an abstract or for more information, visit www.ashrae.org/simbuild2016.

“The practical application of modeling buildings includes a broad range of professional services requiring an equally broad range of expertise, knowledge, skills and tools. This call for presentations addresses these practitioner needs,” Dennis Knight, conference chair, said.

Modeling is useful throughout a building’s life cycle from analyzing individual elements and assemblies at the beginning stages of design through measuring the performance of a building after it is constructed and using calibrated models to improve performance.

While energy may be the single-most highly visible form of modeling, it is clear that practitioners face many other requirements, such as occupant comfort (acoustics, thermal and visual), indoor environmental quality, sustainability, resilience, life safety, system design, component selection, documentation, code compliance, utility incentives analysis, and building performance rating and labeling programs, to name a few.

“This expanded scope of work facing modelers combined with integrating tools like BEM and SIM with BIM describe the challenges facing practitioners today. Through the call for presenters and invited speakers, the conference aims to provide ways to address these common concerns.”

With a goal to address the lifecycle of buildings, the overall theme for the conference is “Using Simulation to Improve Building Performance from Planning and Design to Construction, Operations and Retrofit.”

The conference seeks practical application presentations on the following building modeling topics:

- Energy efficiency
- HVAC component modeling and load analysis
- Urban scale modeling
- Lighting and daylighting
- Optimization
- Computational fluid dynamics
- Data exchange and interoperability
- Energy auditing
- Life cycle cost and economic analysis

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- Model calibration and validation
- Automation and scripting
- Weather data for modeling
- Occupant comfort
- Heat, air, moisture modeling
- Uncertainty analysis
- Big data applications for large scale simulations
- Standards, organization, best practices and workflow for BEM and SIM
- Documenting existing conditions in BIM using photographs, laser scans and point clouds for use in BEM and SIM applications

Modelers, software developers, architects, engineers, building owners and other practitioners are invited to submit presentation proposals on these topics. Presentations addressing case studies, workflow and process, cloud-based solutions, and challenges and work arounds are encouraged.

“These presentations should address the practices of building modeling using existing tools,” Knight said.

Abstracts (400 or less words in length) and a 100-word promotional abstract are due Feb. 3, 2016. Papers are not required for accepted presentation proposals.

To submit an abstract or for more information, visit www.ashrae.org/simbuild2016.

A call for papers recently closed with more than 200 abstracts received. Abstracts are currently being reviewed, and authors of accepted papers will present at the conference as well.

The conference will cover two-and-a-half days and will be preceded by two days of optional training seminars and short courses. 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.

IBPSA-USA is the United States regional affiliate of the [International Building Performance Simulation Association \(IBPSA\)](http://www.ibpsa.org). The mission of IBPSA-USA is to advance and promote the science of building simulation in order to improve the design, construction, operation and maintenance of new and existing buildings in the United States.