VOLUME 10, ISSUE 2 OCTOBER, 2015

INSIDE THIS ISSUE:

October ASHRAE Meeting

Topic: CHILLED BEAMS, a convection HVAC system designed to heat or cool large buildings .

Presenter: Mr. Andrew Randolph, LTG, Inc.

When: Tuesday October 13, 2015

Time: 12 PM with Buffet Lunch Served

Where: Mario's Italian Steakhouse
2740 Monroe Ave, Rochester

Cost: $25.00

Please RSVP by noon Thursday, October 8th to Tim Duprey
tduprey@rochester.rr.com

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Buyer's Guide
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SAVE THE DATE

ASHRAE 2015-2016 Meeting Schedule			
Date	**Event**	**Theme**	**Location**
Tuesday, 10/13/2015	Chilled Beams *(presented by Andrew Randolph, LTG, Inc.)*	Membership Night	Mario's @ 12:00 PM
Monday, 11/9/2015	Environmental Quality in High Performance Buildings *(presented by Brian Monk P.E., Racan)*	Distinguished Lecturer	Mario's @ 12:00 PM
Monday, 12/14/2015	Control Systems - Ways to Identify Performance Issues *(presented by Day Automation)*	Resource Promotion	Mario's @ 12:00 PM
Monday, 1/11/2016	Operation and Applying Drives *(presented by Kevin Diehl - Yasawa America, Inc.)*		Mario's @ 12:00 PM
Friday, 2/5/2016	Annual ASHRAE Valentines Dinner Dance *(Colgate Rochester Crozer Divinity School)*	---	Colgate @ 7:00 PM
Monday, 2/8/2016	Building Load Analysis *(presented by Robert Feduik, Carrier Corporation)*	Membership Promotion	Mario's @ 12:00 PM
Monday, 3/14/2016	Chapter Facility Tour *(University of Rochester - Strong Hospital Central Plant)*	---	Strong Hospital @ 5:00 PM
Monday, 4/11/2016	Retro-Commissioning Existing Buildings *(presented by Al Rodgers & Ron Sanger)*	Pending	Mario's @ 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

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 September Message

Welcome back to a new year of ASHRAE in Rochester! I hope you had an enjoyable summer and took advantage of the spectacular weather. Again, please let me take this opportunity to thank Immediate Past President Ed Burns for the tremendous job he did last year, our chapter thrived under his excellent leadership. The Rochester ASHRAE Chapter Sustainability Project - "Sensory Stimulation Building at the Rochester Rotary Sunshine Campus" is well under way with the help of many volunteers and donations. In fact, a dedication of this building occurred on Wednesday, July 22nd. The work on the Sensory Building HVAC system "Air Side" is complete, however our work is not finished. WE STILL NEED YOUR HELP! There is going to be a designated Rochester ASHRAE Chapter work day on September 19th. The hands on tasks for this work day will be:

- Installation of the wall mounted combination domestic water and space heating boiler
- Radiant floor manifolds tied into the in-floor tubing
- Startup
- Commissioning

Please contact Ed Burns if you have an interest in helping out on September 19th. He can be reached at ejb@mechtechhvac.com.

Christina Walter, 2015-2016 President

The Rochester Chapter Officers and Committee Chairs attended a planning meeting on July 29th to review the responsibility of each position and to discuss the expectations for this year. The slate of meetings for the 2015-2016 calendar year is almost complete; thank you to President Elect and Program Chair Jeff Close. Jeff's efforts in the selection of speakers and program topics, promises for excellent program content for the upcoming year.

The ASHRAE Chapter Regional Conference or CRC for Region I (which Rochester is a part of along with 14 other chapters in the NE) is in Syracuse this year and by the time you are reading this message, has already taken place (August 20th-22nd). The CRC provides an opportunity for the chapters to have input into regional operations, receive training in the different responsibilities of governing the chapter, and networking with other chapters. Although attending the CRC meant time away from work and family, it is an important responsibility that your chapter officers take on to ensure that the Rochester Chapter is the best it can be.

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.

I look forward to seeing you at our opening season Clambake on September 14th!

Christina Walter
2015-2016 President - Rochester Chapter

President's October Message

We kicked off our 2015-2016 ASHRAE program year on Monday, September 14th with our annual Clambake at the Burgundy Basin Inn. Thank-you to everyone that attended…and Wow, what a turnout we had! We were so honored to have **Heidi Zimmer-Meyer**, President of Rochester Downtown Development Corporation, present on major economic news to help send *Downtown Roaring!*

On August 20-22, 2015, Ed Burns (Delegate) and I (Alternate) attended the ASHRAE Chapter Regional Conference (CRC) for Region I in Syracuse, NY. The conference was very informative and will assist our chapter in going forward this year. We learned of Society President, **David Underwood**'s Presidential theme: **Making Connections**. His message was, "Making Connections goes well beyond membership. It means connecting with industry, communities, governments and the public. Our mission is to advance the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world. For us to succeed, we have to build connections."

Our meeting this month will be held on **Tuesday, October 13th**. It is on a different day than our normal Monday, because of the Columbus Day holiday October 12th. Please join us for lunch, camaraderie, and an excellent program on Chilled Beams, Tuesday, October 13thand let's start *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 September ASHRAE Meeting

(Left) Christina Walter presents Ed Burns with the ASHRAE Community Sustainability Project Plaque. (Right) Paul Kenna is presented with Research Promotion - Exceeding Goal Certificate

RDDC President Heidi Zimmer-Meyer presents on the latest economic news on downtown Rochester

2015 CRC Meeting Report

CRC 2015 - Syracuse, NY

The ASHRAE Region 1 CRC (Chapter Regional Conference) was held August 20-22 in Syracuse, NY. The Rochester Chapter had a number of Chapter Officers and Committee Chairs in attendance. This annual conference provides a terrific opportunity to meet, network and interact with the other Region 1 Chapter Officers and Committee Chairs. Might I also say that we are very proud to have local representation with Region 1 in Peter Oppelt, Program Regional Vice Chair (RVC). The conference contained tech sessions, business meetings, demonstrations, a tour of the Syracuse Center of Excellence, workshops, and other social outings which were available for many of the chapter officers, and committee chairs. The CRC finished with an awards luncheon where recognition was given to the chapter and regional volunteers for the work that they put forth throughout the year (July 1, 2014 - June 30 2015). The Rochester Chapter was presented with the following awards:

2014-2015 Awards

ASHRAE Community Sustainability Project Plaque: **Ed Burns**
Presidential Award of Excellence (PAOE) for Sustainability Excellence Certificate: **Ed Burns**
Newsletter - Black Ink Award Honorable Mention Plaque: **Scott Edwards**
Outstanding Performance Chapter Programs Honorable Mention Plaque: **Christina Walter**
Research Promotion - Exceeding Goal Certificate, Bronze Treasury Ribbon: **Paul Kenna**
Research Promotion – Full Circle Chevron: **Rochester Chapter**

Written by: Christina Walter, ASHRAE Rochester Chapter – President

Job Postings & Help Wanted

This section of the newsletter is reserved for those firms wishing to advertise their desires to hire from the Chapters Membership.

If you are interested in utilizing this FREE service provided by the Rochester Chapter, please contact our Chapter President, 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.

2015-2016 Presidential Award of Excellence Summary

Chapter #	Chapter Name	Chapter Members	Member Promotion	Student Activities	Research Promotion	Chapter Technology Transfer	History	Chapter Operations	Chapter PAOE Totals
11	Rochester	238	325	0	0	0	0	0	325

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

Young Engineers in ASHRAE (YEA)

Interested in being involved in Young Engineers in ASHRAE? We will have a planning meeting in October (date TBD). Please contact Matt Kremers at mkremers@mcsmms.com.

Anyone interested in FE / EIT review courses contact Matt Kremers at mkremers@mcsmms.com

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Membership Promotion

ASHRAE Rochester Chapter- Membership Promotion

Please remember to take a few minutes to make sure that your profile is up to date at www.ASHRAE.org. Maybe you've changed jobs? email address? or would like to advance your membership (i.e. Associate Member to Member). Keeping this information current ensures that you get the most value out of ASHRAE.

There is also a lot of emphasis this year to attempt to do as much of our Membership Renewals and New Member Applications online to decrease the amount of paperwork for the Society and make the process "Greener." If you have any questions or need assistance with any Membership Issues, please let me know.

Thank you, and as always, thank you for your support for ASHRAE.

Sincerely,
Jake Hall
Membership Promotion Chair

Board of Governors Meeting Minutes

Rochester Chapter - ASHRAE

Board of Governors Meeting Minutes

September 11th, 2015 7:30 AM

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

President / CRC Alternate	Christina Walter	X
President Elect / Program	Jeff Close	X
Secretary	Bill Clark	X
Treasurer	Paul Kenna	X
Immediate Past President / CRC Delegate	Ed Burns	
Board of Gov. (1)	Steve Dear	X
Board of Gov. (1)	Sam Scorsone	X
Board of Gov. (2)	Branden Farnsworth-Weinblatt	
Board of Gov. (2)	Tom Streber	
Board of Gov. (3)	Mike Benedict	X
Board of Gov. (3)	Scott Edwards	X
Attendance	Tim Duprey	X
Historian	Lee Loomis	X
Membership Promotion	Jake Hall	X
Newsletter Editor	Scott Edwards	X
Resource Promotion	Matt Devlin	
Awards	Al Rodgers	
CTTC	Jeff Wiedrick	
Education	Bill Murray	X
Publicity	Mark Kukla	
Website	Kevin Wind	
YEA Chair	Matt Kremers	
Student Activities	Chris Lukasiewicz	X
Nominating (2nd 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	X
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
   - Program is set for this year
   - See newsletter or RES for meeting schedule
4. Approval of previous meeting's minutes — All
   - Motion to accept by Jeff Close
   - Second by Tim Duprey
5. Treasurer's Report 2015/2016 Budget — Paul Kenna
   - Paul distributed the 2015/16 budget at the meeting.
6. Committee Reports
   - Technology Transfer Committee — Jeff Wiedrick
     Program/Tech Sessions
     Technology Transfer
     - We have a 2 week extension for the long form application submission for the Transit Center project.
   - Membership — Jacob Hall
     - 239 members as of now
     - Added 4 members
     - Lost 8 members
     - At CRC we were urged to add a retention chair to keep members.
     - M/E has the most ASHRAE members out of any company in our chapter.
     - Jeff Close to email out a breakdown of what companies have how many members.
   - Student Activities — Chris Lukasiewicz
     - Chis has been working with MCC and will start to work more with the main campus science and engineering departments.
   - Education — Bill Murray
     - Bill to review the October and November meetings for PDH credits.
   - YEA — Matt Kremers
     - No activities planned this early in the year.
   - Awards & Recognition — Al Rodgers
     - We did receive rewards at the CRC to be presented at a future meeting.
   - Resource Promotion — Matt Devins
     - Meeting with Matt and some of the past Resource Promotion chairs to get this year going needs to be scheduled.
     - Sam Scorsone to look at centralized training dates to possibly attend.
   - Refrigeration — Mike Nohle
     - There are PAOE points for forming a Refrigeration committee of 2 or more members.
   - Chapter Tech Energy & Govt Activities — Tom Burke

Board of Governors Meeting Minutes

- We are looking for a few people to create a TEGA committee.

- Newsletter — Scott Edwards
  - PAOE points are available for reports from committee chairs.
- Buyers Guide — Marianne Schumacher
  - Marianne has met with Stephanie (the previous Buyers Guide chair) to get started.
- Attendance — Tim Duprey
  - There has been an excellent response to the clambake we have 111 reservations to date and people can still RSVP until 2 pm today.
  - Tickets will be available at the registration table.
- Historian — Lee Loomis
  - Lee to set up the historian exhibit used at the CRC at the clambake.
- Publicity — Mark Kukla
- Website
  - There are PAOE points available for the website.
- Nominating — Ed Burns
- CRC 2016 General Chair — Jim Browe
  - Jim is working on tours and activities for the CRC.
    - Strong Museum and Wine and Culinary Center are current options.
  - Jim is touring LaLuna and the East Ave penthouse for the Thursday night dinner.
  - Friday night dinner and Saturday lunch to be at the Hyatt.

7. Old Business
   - Saturday, September 19: Rochester Chapter workday at Sensory Stimulation Building, Sunshine Campus
     i. Work to finish boiler and piping.
   - 2015 Syracuse, NY CRC recap
   - Audit Committee - Fall

8. New Business
   - Log PAOE points in monthly
   - Each person should create their own MBO and goals for this year. This doesn't need to be extreme. Keep it clear and attainable.
   - Create/Update your Biography on www.ASHRAE.org website
   - CRC 2016 in Rochester, August 18-20
     i. The more people who can participate from our local chapter the better.

9. Next BOG meeting: Thursday, October 8, 7:30 am
10. Adjourn 8:36 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-CONDIONING 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: ____________

Permanant 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 ____

I would like to particpate 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 ☐ Sophmore ☐ 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 intenrational 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*

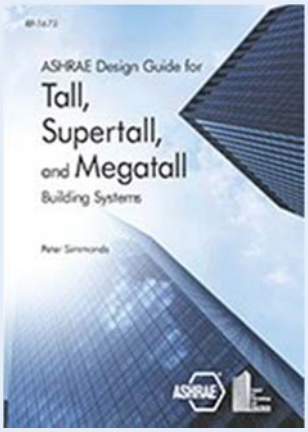
Card Number: ____________________ Expiration Date ____________ CVV No. ______ Amount: ____________

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.**

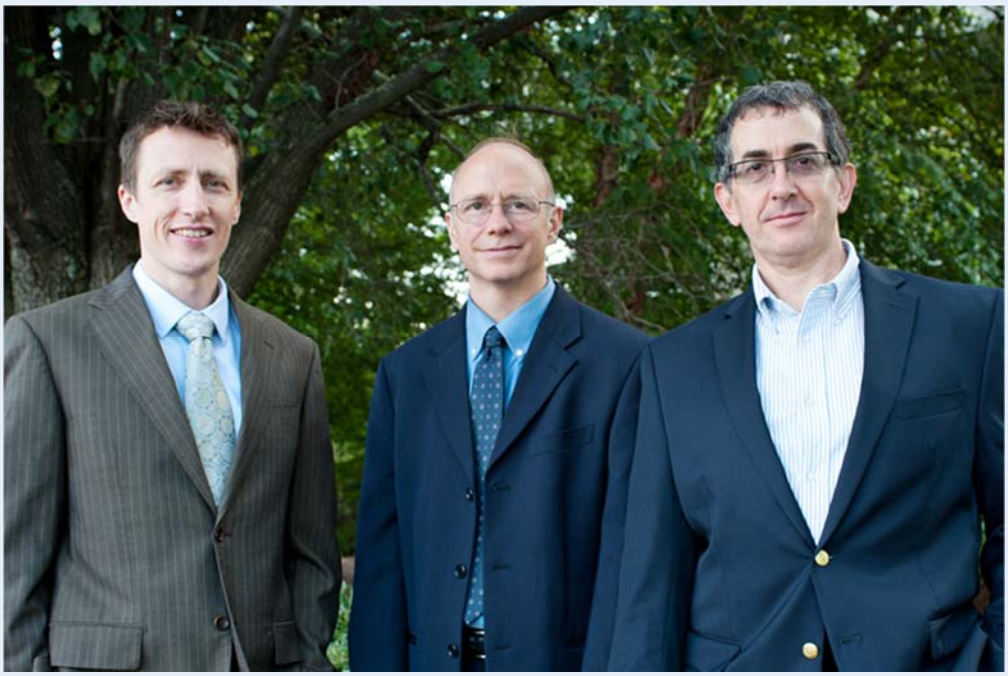
New in the ASHRAE Bookstore



Tall buildings present unique and formidable challenges to architects and engineers because of their size, location in major urban areas, and the multiple, complex occupancies they often contain. ASHRAE Design Guide for Tall, Supertall, and Megatall Building Systems **is a unique reference for owners; architects; and mechanical, structural, and electrical engineers as well as other specialized consultants involved in designing systems for these buildings.**

www.ashrae.org/megatall

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"

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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.

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For Release:
Aug. 31, 2015

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ASHRAE Proposes Standard to Serve as "Backbone" of Valid Rating Systems

ATLANTA – While many building rating programs exist worldwide, there is not anything in the industry that standardizes the contents of those programs, ensuring users are knowledgeable about what impacts their ratings.

A proposed standard from ASHRAE, currently open for public comment, would serve as the "backbone" of such rating systems.

ASHRAE Standard 214P, *Standard for Determining and Expressing Building Energy Performance in a Rating Program*, is being written to standardize building energy rating programs by requiring the minimum content of any labels associated with rating programs, establishing minimum requirements for rating program documentation and other essential components in rating programs.

The proposed standard is currently open for public comment until Sept. 28, 2015. To learn more or to comment, visit www.ashrae.org/publicreviews.

"There are many entities that are rating buildings utilizing a number of different building rating systems yielding varying results," Wayne Stoppelmoor, chair of the Standard 214P committee, said. "Feedback from government and regulatory agencies has shown there is an overwhelming need for a standard that provides uniformity in the building energy labeling and disclosure process. We want to provide a non-commercial consensus standard that can be used in international, national and regional legislation, policy making and regulation activities. The goal is to write a standard that provides guidance for establishing rating systems that produce meaningful and consistent results."

Stoppelmoor said he sees the proposed standard as a way to identify what rating systems should be used to comply with building energy disclosure ordinances and as a guideline for those developing rating systems. It is anticipated that the proposed standard will have minimal impact on existing rating systems.

The standard would establish requirements for:

- Disclosure of building energy use via a rating label and supporting summary documentation
- Determining and expressing energy use, with metered data, of buildings and building sites that are in operation
- Acceptable credentialing criteria for individuals applying the standard and reporting building energy use
- Pre-occupancy (design) and post-occupancy (in operation) conditions
- Format and content of the rating disclosure, the label and supporting documentation.

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For Release:
Sept. 2, 2015

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New Residential IAQ Guideline Contains Changes Regarding Use of High Efficiency Filters

ATLANTA – With recent research showing that ultrafine particles are more hazardous to human health than originally thought, higher-efficiency filters should be used, according to the newly published 2015 version of ASHRAE's residential indoor air quality guideline. Guideline 24-2015, *Ventilation and Indoor Air Quality in Low-Rise Residential Buildings*, provides information on achieving good IAQ that goes beyond the requirements contained in Standard 62.2, *Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings*, by providing explanatory and educational material not included in the code-intended standard. Guideline 24 is the companion document to Standard 62.2.

"In the 2008 version, we indicated that if a lot of ultrafine particles were expected, higher-efficiency filters should be considered. Period," Paul Francisco, chair of the Guideline 62.2 committee, said. "Now we say a lot more. We cite research that shows that ultrafine particles are a much more significant concern, and we state explicitly that higher-efficiency filters mean MERV 13 or higher."

Rick Karg, a member of the Guideline 24 committee who oversaw the revision of the section, notes that particle filters with minimum efficiency reporting value (MERV) ratings below 6 are poor at filtering out respirable particulates (typically below 2.5 microns), but can do an acceptable job at removing the large visible particles such as fibers, insects, or large dusts or pollens. ANSI/ASHRAE Standard 52.2*, Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size,* specifies removal efficiency values for particulate filters.

"Recent research suggests that mass of particles below 2.5 microns ($PM_{2.5}$) may be one of the most significant indoor airborne contaminants in terms of chronic health impact in residences of those that have been well studied," Karg said. "$PM_{2.5}$ is also the most straightforward contaminant to remove from indoor environments through filtration. MERV 10 rated filters and higher are preferred for removing smaller airborne allergens and $PM_{2.5}$ particles."

As such, Guideline 24 recommends that higher-efficiency (MERV 13 and higher) filters should be considered. Multistage particle filtration (a relatively coarse filter followed by a high-efficiency filter) can help filter out different sized particles without overloading the higher-efficiency filters. When selecting filters, consideration should be given to the effects of the filter's pressure drop on delivered airflow, fan capacity and energy use, according to Karg.

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For Release:
Sept. 2, 2015

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Other significant changes to Guideline 24 are:

- Important new definitions, which align the guideline with Standard 62.2.
- Section 4.3.7 Estimating Health Impacts of Contaminant Exposure. Discusses the new methods for quantifying the impact of contaminant exposure, including Disability Adjusted Life Years (DALY).
- Section 5.4.5 Interplay of Mechanical Ventilation and Infiltration. Addresses the important differences between the manner in which balanced and unbalanced mechanical ventilation impact infiltration (natural air leakage). This difference can significantly impact the total ventilation available (mechanical plus infiltration) in a dwelling.

In addition, several other updates were made. Among these are:

- Tables 4.1, Comparison of Regulations and Guidelines Pertinent to Indoor Environments, and Concentration of Interest for Selected Contaminates. Both of these tables were vetted by a number of experts to bring the data up to date.
- Significant updates and expansion to Sections 7 Moisture; 8.6,Combustion Appliances; 12, Verification of Equipment Performance; and 13, Ventilation Controls Significant updates and expansion.
- Section 10 Mechanical Ventilation Systems Design includes significant updates and expansion A new subsection now includes range hoods and the related discussion of the new metric, capture efficiency.
- References. Approximately 20 references were added and all previous ones were vetted for needed updates.

The cost of Guideline 24-2015, Ventilation and Indoor Air Quality in Low-Rise Residential Buildings, is $58 ($48, ASHRAE members). To order, visit www.ashrae.org/bookstore or contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide) or fax 678-539-2129.

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For Release:
Sept. 8, 2015

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Sun, Fun, ASHRAE and AHR Expo: Registration Open for 2016 Winter Conference in Orlando

ATLANTA – New technical program tracks, more than 200 Professional Development Hour opportunities and the world's largest HVAC&R marketplace are just a few highlights of the ASHRAE 2016 Winter Conference and AHR Expo taking place in Orlando, Fla.

The two events are expected to draw thousands of industry professionals from around the world. The ASHRAE 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. The venues are located next to each other for easy access.

To register for the ASHRAE Conference, which includes free access to the Expo, visit www.ashrae.org/orlando. Information about the Expo can be found at www.ahrexpo.com.

"As an ASHRAE member for more than 40 years, I look forward to all aspects of the Winter Conference – sharing ideas with attendees, visiting the Expo to see the latest solutions to engineering challenges and attending the sessions and courses," ASHRAE President David Underwood said. "There is no better place than the ASHRAE Conference and AHR Expo to make the connections to ensure a sustainable future, both for you and for our industry."

In keeping with ASHRAE's goal of continuing education, some 200 Professional Development Hours recognized by most U.S. states, AIA LUs and LEED AP credits are available through ASHRAE Learning Institute courses and Technical Program sessions. The Conference and ASHRAE Learning Institute Professional Development Hours are accepted by the state of Florida for maintaining professional engineering registrations.

The Technical Program is expected to feature more than 100 sessions and 300 speakers over eight tracks, which address current trends and technologies in the industry; focus on core tracks, design-build practices and residential systems; and emphasize energy efficiency and sustainability, including current international engineering and construction practices. Tracks are Systems and Equipment, Fundamentals and Applications, Design Build (new), International Design, Standards, Guidelines and Codes, Cutting-Edge Technologies (new), The Great Debate (new) and Modern Residential Systems (new). The full Program will be announced in late September.

Twenty Professional Development Seminars and Short Courses are being offered by the ASHRAE Learning Institute. New courses include Variable Refrigerant Flow System Design & Application, and Evaluation and Control of Legionella in Building Water Systems.

Additionally, ASHRAE offers an onsite administration of all six certifications on Jan. 27: Building Energy Assessment Professional (BEAP), Building Energy Modeling Professional (BEMP), Commissioning Process Management Professional (CPMP), High-Performance Building Design Professional (HBDP), Healthcare Facility Design Professional (HFDP) and Operations & Performance Management Professional (OPMP).

Another Conference highlight is the Technical Tours, which include SeaWorld Antarctica: Empire of the Penguin, Harvest Power's Energy Garden, the University of Central Florida Power Plant and the Florida Solar Energy Center.

The keynote speaker at the opening Plenary Session is Laura Schwartz, the White House Director of Events for the Clinton Administration. In her address, Schwartz discusses how volunteerism can make a difference in your world and in your organization. As Schwartz explains, "volunteer associations and service organizations are instrumental in society because they can often do things more effectively than our government."

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For Release:
Sept. 10, 2015

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Lighting, Climate Zone Changes Proposed for ASHRAE/IES Energy Standard

ATLANTA – Changes regarding lighting and climate zones are being proposed to the energy standard published by ASHRAE and the Illuminating Engineering Society (IES).

Twenty-three addenda to ANSI/ASHRAE/IES Standard 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings,* are open for public comment starting Sept. 4, 2015. To comment or learn more, visit www.ashrae.org/publicreviews.

Among the addenda open for public comment is addendum *ch*, which proposes a new set of interior lighting power densities (LPD) limits for both building area and space by space compliance paths. These new LPD limits stems from inclusion of light emitting diode (LED) technology into the space type models that are used to determine appropriate LPD limits for compliance with the standard, according to Eric Richman, chair of the standard's lighting subcommittee.

These LPD limits (watts per square foot) are calculated using IES formulas that relate lighting energy use to lighting quantity based on the application of appropriate lighting technologies into individual space models. These models incorporate efficient cost-effective lighting technology, appropriate light loss factors, and current design practice that incorporate quality design elements.

The new LPD values are generally lower by sometimes small to often significant amounts. The magnitude of the change is based primarily on the amount of LED technology incorporated into the model.

"These proposed changes have been under consideration within the 90.1 Lighting Subcommittee for several years," Richman said. "Inclusion of LEDs were seriously considered for the 2013 version of the standard. However, at the time the changes needed to be processed (late 2012), the cost of LEDs was still relatively high and the variety and depth of available products was not deemed sufficient to incorporate into a mandatory code. We understand that LED technology continues to improve and become even more cost-effective such that by the time these new requirements are required for building projects, their effectiveness and viability on code compliance will be even easier."

Also open for public comment is addendum *br*, which was developed in response to the publication of ANSI/ASHRAE Standard 169-2013, *Climatic Data for Building Design Standards*. Standard 169 includes more-recent weather data (resulting in changes in climate zone assignments for some locations, including approximately 10 percent of the 3,000 counties in the United States) and the creation of a new Climate Zone 0. The proposed addendum adds requirements for mechanical provisions.

Under addendum *w*, which is expected to be published in 90.1-2016, Standard 169 is referenced for climatic data (though a new Reference Standard Reproduction Annex in Standard 90.1 includes extracts from Standard 169). Addendum *w* proposed criteria for Climate Zone 0 in Standard 90.1 for envelope provisions. Addendum *br* covers criteria for Climate Zone 0 of Section 6 (HVAC), and for the mechanical systems portions Appendix C and G.

Generally, the new Climate Zone 0 is the hotter portion of the previous Climate Zone 1, which was the warmest climate zone. Cities in Climate Zone 0 include Mumbai (Bombay), Jakarta and Abu Dhabi. There are no cities in the United States in Climate Zone 0; Miami and the islands of Hawaii are in Climate Zone 1. The separation of Climate Zones 0 and 1 allows separate criteria for Standard 90.1 to be developed that are more specific to the hotter regions of Climate Zone 0.

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For Release:
Sept. 10, 2015

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Addenda open for public comment from Sept. 4 until Oct. 4, 2015, are :

- *bt* updates efficiency values for low-voltage dry-type transformers to be consistent with federal law.
- *bx* requires a modeler to use the design set point for multi-zone thermostat systems..
- *bv* exempts baselines with purchased cooling and heat from the reset control requirements in Appendix G.
- *bw* provides a baseline for lighting controls consistent with addendum *bm*.
- *bz* to replaces Table 6.8.1-11 to account for the new rating conditions.
- *by* requires pipe insulation on the first 8 feet of branch piping.
- *cb* updates duct insulation requirements.
- *ca* modifies the fan power criteria by lowering of the motor power threshold for the fan speed control requirement.
- *ce* increases the minimum ERV requirements from zero to a reasonable minimum size for smaller units.
- *cc* replaces the definition of sidelighting effective aperture that was inadvertently deleted in 90.1-2013.
- cf to adds additional requirements to section 6.1.1.3.1 for direct replacement HVAC equipment.
- *ci* adjusts the equations for fenestration orientation in Section 5.5.4.5 by requiring a lower solar heat gain coefficient (SHGC) for west and east facing fenestration, and by allowing the use combinations of fenestration area, exterior shading and SHGC to demonstrate compliance.
- *ck* makes a change to control set point for the cooling tower to better scale with its climate, clarifies the operation of the condenser water pump as a constant volume pump, and modifies the exception for pump W/gpm for water side economizer.
- *cj* modifies a footnote in Appendix G for single zone variable air volume systems serving computer rooms.
- *du* requires water-side economizers for non-fan chilled water systems such as radiant cooling or passive chilled beam systems and for active chilled beam systems.

In addition, seven addenda are open for public comment from Sept. 4 until Oct. 19, 2015. They are:

- *ai* includes revisions to the fenestration criteria including U-factors and SHGC in certain climate zones.
- *br* was developed in response to the update of Standard 169-2013, *Climatic Data for Building Design Standards*.
- *bs* updates the EER values for water-source variable refrigerant flow products above 65,000 Btu/h. The proposal also establishes for the first time minimum IEER values for this product class.
- *cd* establishes for the first time a product class for dedicated outdoor air systems.
- *cg* modifies the exterior LPD for building exteriors.
- *ch* modifies the LPD for both space by space and building area methods by including LED technology into the lighting systems.
- *cl* relocates Table 7.8 for minimum efficiency requirements for residential water heaters and pool heaters to an informative appendix.

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For Release:
Sept. 16, 2015

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Compliance Path based on Use of Filtered Recirculated Air Proposed for ASHRAE Residential IAQ Standard

ATLANTA – A new optional credit for improving filtration combined with ensuring sufficient air flow through filters is being proposed for ASHRAE's residential indoor air quality standard.

ANSI/ASHRAE Standard 62.2-2013, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*, is the only nationally recognized indoor air quality standard developed solely for residences. It defines the roles of and minimum requirements for mechanical and natural ventilation systems and the building envelope intended to provide acceptable indoor air quality in residential buildings.

Eight proposed addenda to Standard 62.2-2013 are currently open for public comment. To comment or learn more, visit www.ashrae.org/publicreviews.

Among them is addendum *k*, which is open for public comment until Oct. 4, 2015. The addendum would create a compliance path based on the use of recirculated air that has been filtered to reduce exposure in the building interior to particulate matter not exceeding 2.5 microns. "These particles ($PM_{2.5}$) have been found to be one of the most important indoor contaminants from a health perspective," Paul Francisco, 62.2 committee chair, said. "This change would provide an optional credit for having improved filtration combined with ensuring that sufficient air flowed through the filter. This would be the first time the standard has focused on a specific contaminant."

In addition, addendum *v* is open for public review until Oct. 19. The addendum sets out requirements for non-continuous ventilation. Whereas the standard has included an option for intermittent ventilation, this proposed change provides calculation procedures for a boarder range of potential operation schedules. It also contains a limit on how much contaminants can increase over a short term due to non-continuous operation to ensure this type of operation does not result in periodic excessive contaminant levels, according to Francisco.

Other addenda are scheduled for review until October 4, 2015 are:

- Addendum *o*. The committee approved a proposal to change references to "whole-building" or "whole-house" ventilation to "dwelling unit" ventilation in the main body of the standard. This proposed changed ensures consistency in Normative Appendix A (Existing Buildings).
- Addendum *p* would clarify the requirement in Section 7.2.2 (Demand-Controlled Local Exhaust Fans) that fans have at least one speed setting meeting the minimum required exhaust airflow rate where the corresponding sone rating is 3 or less. Currently, the language in this section would permit any fan with a high speed setting exceeding 400 cfm to be exempt from the sone requirement, even if operating on a lower speed setting. Closing this loop hole will ensure that occupants that have typical sized range hoods will have at least one speed setting rated ≤ 3 sone.
- Addendum *q* adds an alternative combustion safety testing method based on performance in lieu of the prescriptive requirements that were the sole basis previously.
- Addendum *r* would provide guidance on this topic while aligning the language with the latest draft of BSR/RESNET/ICC 380, "Standard for Testing Airtightness of Building Enclosures, Airtightness of Heating and Cooling Air Distribution Systems, and Airflow of Mechanical Ventilation Systems."
- Addendum *s* provides a mechanism for accounting for the differences between balanced and unbalanced ventilation. Standard 62.2 has not previously distinguished between balanced and unbalanced ventilation, despite it being well-known that these interact with natural infiltration in different ways to produce different overall air exchange rates.
- Addendum *u* adds an alternative method to reduce transfer air in existing buildings. The compartmentalization requirement in the existing standard is extremely difficult and cost-prohibitive to meet for many existing buildings. While this is a desirable target, an alternative for existing buildings to meet the standard with reasonable effort is needed.

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For Release:
Sept. 17, 2015

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DOE Releases Common Definition of Zero Energy Buildings, Campuses and Communities; ASHRAE Commends Efforts

WASHINGTON, DC – Today the U.S. Department of Energy (DOE) reached a significant milestone in bringing the building community together by releasing a common definition of a zero energy building, or what is also referred to as a "net zero energy" or "zero net energy" building.

After leading an extensive stakeholder engagement process over the past year and a half, the Energy Department released its findings in the recently published *A Common Definition of Zero Energy Buildings*, which states that a Zero Energy Building is "an energy-efficient building where, on a source energy basis, the actual annual delivered energy is less than or equal to the on-site renewable exported energy." This definition also applies to campuses, portfolios, and communities. In addition to providing clarity across the industry, this new DOE publication provides important guidelines for measurement and implementation, specifically explaining how to utilize this definition for building projects.

"Reducing energy use in buildings must be a major part of the solution as we work to combat the escalating costs and impacts of climate change," said Brendan Owens, chief engineer at the U.S. Green Building Council, which represents more than 13,000 member businesses and organizations from across the building community. "While we are making significant progress to save energy in buildings, this Zero Energy Building definition developed by DOE helps increase expectations and orient the buildings industry towards even greater achievements. USGBC applauds DOE's effort to define zero energy buildings and we look forward to continuing to champion the cause of building efficiency and renewable energy applications to meet the ambitious goals of this definition."

In collaboration with the National Institute of Building Sciences (NIBS), DOE initiated a process last year to work with a large, diverse set of building industry stakeholders to develop its common definition of what it means to be a zero energy building. Thousands of project teams throughout the country are looking to push the envelope and achieve a zero energy building. In fact, the number of zero energy buildings doubled from 2012 to 2014 across 36 states, according to the New Buildings Institute. The growth of zero energy buildings has highlighted a lack of clarity and consistency across the industry on key definitional issues that increasingly were the source of market confusion, underscoring the need for DOE to help develop a commonly accepted definition and approach.

"NIBS and USDOE have created a set of clear and concise definitions for zero energy buildings that will help to narrow the broad array of terminology currently used in the industry," said Ralph DiNola, CEO of New Buildings Institute. "These consistent definitions will contribute to the growth of zero energy building construction across this country. NBI supports the definitions as a federal position and will promote this effort through the work we do leading programs, practices and policies to get to zero across North America."

Generally speaking, a zero energy building produces enough renewable energy to meet its own annual energy consumption requirements, thereby reducing the use of non-renewable energy in the building sector. There are a number of long-term advantages of buildings meeting this goal, including lower environmental impacts, lower operating and maintenance costs, better resilience to power outages and natural disasters, and improved energy security.

"We applaud the Department of Energy's continuing work to promote buildings that use less energy. For more than 150 years, AIA-member architects have worked to advance our quality of life through design," said Elizabeth Chu Richter, FAIA, president of the American Institute of Architects (AIA). "From designing the next generation of energy-saving buildings to making our communities healthier and more vibrant, the 86,000 members of the AIA shape our future through their work. The quality of this future is wholly dependent on sustainable, resilient buildings that reduce the nation's reliance on non-renewable energy sources. That is why the Department of Energy's work is vitally important to the industry and nation as a whole."

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For Release:
Sept. 17, 2015

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Reducing building energy consumption in new building construction or renovation can be accomplished through various means, including integrated design, energy efficiency retrofits, reduced plug loads and energy conservation programs. Reduced energy consumption makes it simpler and less expensive to meet the building's energy needs with renewable sources of energy. By clarifying what it means to be a zero energy building, this definition will help more building owners determine if developing a zero energy building is right for them. By creating this common definition for zero energy buildings, building owners and project teams can now better focus their effort on implementing strategies to improve the performance of their buildings.

"The National Association of State Energy Officials (NASEO) commends the Department for taking this critically important step to help define Zero Net Energy," said David Terry, executive director of National Association of State Energy Officials (NASEO). "For too long, uncertainty in the market place around this issue has been a barrier to many private and state efforts in the move toward Zero Net Energy buildings. This action supports existing state energy office efforts which have resulted in Zero Net Energy schools in Kentucky, state office buildings in Iowa, and new homes in many states. Providing standard definitions will help states and private sector partners expand the pace of Zero Net Energy construction."

"IBPSA-USA welcomes the development of this industry-standard definition for zero energy buildings," said Mike Wilson, Executive Director of IBPSA, the US Affiliate of the International Building Performance and Simulation Association. "We intend to promote the use of this definition by IBPSA-USA members, who play a vital role in the development of successful zero energy buildings through the application of building performance simulation."

"For one hundred and twenty one years ASHRAE has been a national and global leader in standards development that fulfills our mission of serving humanity and promoting a sustainable world. We commend the Department of Energy on its efforts to seek consensus on the issue of energy efficiency in the built environment." says David Underwood, president of ASHRAE. "The 53,000 world-wide members of ASHRAE have diverse interests in how to approach Zero Energy Buildings but all share a desire to move this goal forward. This definition of Zero Energy Buildings will certainly become one of the tools used by the world-wide marketplace to move towards a sustainable future."

The Zero Energy Building Definition can be viewed here: http://energy.gov/eere/buildings/downloads/common-definition-zero-energy-buildings.

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For Release:
Sept. 21, 2015

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ASHRAE and IBPSA-USA SimBuild 2016 Conference Announced

ATLANTA – ASHRAE and IBPSA-USA have announced a second, co-organized conference that encompasses the ASHRAE Energy Modeling and IBPSA-USA SimBuild Conferences.

The co-organized conference, titled ASHRAE and IBPSA-USA SimBuild 2016: Building Performance Modeling, takes place Aug. 10-12, 2016, Salt Lake City, Utah. There is currently an open call for papers.

"The first jointly organized conference held in 2014 was a huge success in its ability to bring to the building energy analysis and performance simulation community together and provide the conference content to serve attendees," Dennis Knight, Conference chair, said. "The ASHRAE and IBPSA-USA SimBuild 2016 conference seeks to build upon that success and further improve the industry's ability to accurately model building performance."

Modelers, software developers, owners and researchers will address the practices of energy modeling and building performance simulation using existing simulation tools, software development, and future simulation research and applications.

The conference seeks papers on the following topics:

- Energy efficiency
- HVAC component modeling and load analysis
- Urban scale modeling
- Lighting and daylighting
- Combined use of tools
- Co-simulation
- Optimization
- Algorithm advances
- Computational fluid dynamics
- Data exchange and interoperability
- Energy auditing
- Life cycle cost and economic analysis
- Model calibration and validation
- Automation and scripting
- Modeling of tall buildings
- Weather data for modeling
- Occupant comfort
- Heat, air, moisture modeling
- Uncertainty analysis
- Big data applications for large scale simulations
- Reality capture for modeling
- Data visualization and user experience

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Sept. 21, 2015

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In addition, papers describing workarounds, case studies, how to's, challenges, barriers and cloud-based solutions are encouraged.

Abstracts (400 or less words in length) are due Oct. 16, 2015. If accepted, papers are due Jan. 15, 2016. The conference papers will be a maximum of eight pages in length.

To submit an abstract or for more information, visit www.ashrae.org/simbuild2016.
A call for presenters will be announced after the call for papers closes. Invited speakers and keynote speakers will be announced.

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

“The conference seeks to keep pace with advances in computing, data and automation as well as to help modelers make better decisions through the application of simulation and modeling over the entire building life cycle,” Knight said.

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 50,000 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. For more information, visit www.ashrae.org/news.

IBPSA-USA is the United States regional affiliate of the International Building Performance Simulation Association (IBPSA). 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.

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ASHRAE News

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For Release:
Sept. 22, 2015

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Reports Estimate Over 100,000 New HVACR Mechanics and Installers Needed in Next Seven Years Due to Growth and Retirements

Arlington, VA – The HVACR Workforce Development Foundation released three new reports and accompanying executive summary today confirming that demand outstrips the supply of heating, ventilation, air conditioning and refrigeration employees. In particular, mechanics and installers are in critical shortage in most areas of the nation. ASHRAE is a member of the Foundation.
Due to the increased growth in the sector and the ongoing retirement of Baby Boomers, HVACR programs in technical and community colleges are not filling the seats available to meet the current and anticipated demand. HVACR employers are having a difficult time filling positions, especially for refrigeration and HVAC technicians, respectively 44 and 36 days longer than the national average of 29 days for similar positions.

“HVACR programs in the U.S. and Canada are seeking new students, whether you are a recent high school graduate, veteran or second-career adult,” said Kari M. Arfstrom, executive director of the HVACR Foundation. “With HVACR certifications or an associate’s degree, new employees can be assured of a solid middle class job that cannot be off shored, is high tech and offers better than average pay.”

Almost half of all mechanics and installers will retire in the next decade according to the new research, but post-secondary HVACR programs are not filling the seats needed to support these jobs. The reports detail the opportunities available for HVACR workers and address the unique issues constraining the pipeline for these roles. Concluding the analysis of supply and demand is the introduction of a North American Plan to reduce the employment gap.

An executive summary of the three reports, *The HVACR Workforce: Demand Heats up as Supply Melts Away*, is available on the HVACR Foundation’s website www.CareersinHVACR.org.

The summary is based on the three commissioned reports:

- *The Next Generation of HVACR Installers and Technicians: What instructors are saying and what needs to be done*, the first-ever survey of instructors in HVACR programs in U.S. and Canada.
- *Heating up: The Sweltering Demand for Heating, Ventilation, Air Conditioning, and Refrigeration Workers*, prepared by Burning Glass Technologies.
- *A Labour Market Investigation of the HVACR Sector in Canada*, by Prism Economics and Analysis.
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About HVACR Workforce Development Foundation
The HVACR Workforce Development Foundation is dedicated to leading an industry effort to develop and promote educational projects, programs, and partnerships to attract committed and skilled employees to a career in HVACR. The Foundation’s objectives are to raise the awareness of the HVACR industry and the importance it plays in daily lives; to create interest in the HVACR industry as an attractive and profitable career choice; and to enhance the quality and quantity of available workforce for the HVACR industry.
For more information, including the eight funding organizations, please visit www.CareersinHVACR.org

News

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

For Release:
Sept. 29, 2015

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New ASHRAE Guideline Focuses on Optimum Facility and System Operation

ATLANTA – Helping commissioning providers ensure optimized operation of their facilities and systems is the focus of a newly published guideline from ASHRAE.

ASHRAE Guideline 0.2-2015, *Commissioning Process for Existing Building Systems and Assemblies*, outlines a systematic quality-oriented process that improves the performance and sustainability of existing facilities. This roadmap includes planning, assessing, investigating, implementing, verifying and documenting performance to meet operational requirements.

"Guideline 0.2 provides commissioning providers with the latest tools needed to address the growing market of commissioning existing buildings that require improvements to reduce energy consumption, improve occupant comfort and increase operational efficiency," Tom Cappellin, vice chair of the committee that wrote the guideline, said.

The step-by-step process guides owners and facility managers through the process of ensuring optimum effectiveness from their facility for the lowest investment and provides the tools to ensure those benefits last for the life of the building.

Guideline 0.2 is intended for use by owners, facility decision makers and commissioning providers who are seeking to achieve goals as identified in the owner's "current facility requirements."

It expands on the commissioning principles developed in ASHRAE Guideline 0. Guideline 0.2 includes 10 sections that explain recommended steps to apply the existing building commissioning process, as well as 23 informative annexes that explain how the process steps can be organized into a comprehensive set of activities and commissioning documents.

The annexes include flow charts, costs/benefits information, RFQ and team selection information, and guidance on preparing various commissioning reports. Many of the annexes include links to example documents prepared for actual projects.

Other commissioning guidance from ASHRAE includes Guideline 0-2005, *The Commissioning Process;* Guideline 1.1-2007, *HVAC&R Technical Requirements for the Commissioning Process*; and Guideline 1.5-2012, *The Commissioning Process for Smoke Control Systems;* and Standard 202-2013, *Commissioning Process for Buildings and Systems*.

ASHRAE also is working on several other guidelines related to commissioning: Guideline 1.2P, *The Commissioning Process for Existing HVAC&R Systems*; Guideline 1.3P, *Building Operation and Maintenance Training for the HVAC&R Commissioning Process*; and Guideline 1.4P, *Procedures for Preparing Facility Systems Manuals*.

The cost of ASHRAE Guideline 0.2-2015, *Commissioning Processes for Existing System and Assemblies*, is $72 ($61, ASHRAE members).

To order, visit www.ashrae.org/bookstore or contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide) or fax 678-539-2129.

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