ASHRAE Rochester

VOLUME 9, ISSUE 2 OCTOBER 1, 2014

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ASHRAE October Meeting info

Topic: Sustainability, Cogen Energy, Economics of Energy in manufacturing, and Challenges of delivering energy across lot boundary lines.

Presenter: Mr. Bob Bechtold
President, HARBEC Plastics Inc.

When: Monday October 6, 2014

Time: 12 PM with Buffet Lunch Served

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

Cost: $25.00

HARBEC

Please RSVP by noon Thursday, October 2nd to Tim Duprey
tduprey@rochester.rr.com

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SAVE THE DATE

ASHRAE 2014-2015 Meeting Schedule

Date	Event	pdh / Theme	Location	Schedule
10/06/14	Harbec Plastics: Sustainability, Cogen Energy, Economics of Energy in manufacturing, and Challenges of delivering energy across lot boundary lines Mr. Bob Bechtold, President of Harbec Plastics	Pending	Mario's	12:00 PM
11/10/14	Vibration Isolation - HVAC Noise and Vibration Control Mr. Dick Sherren, Kinetics Noise	Available	Mario's	12:00 PM
12/08/14	Freeze Block Technology Mr. Bob Cooney, Cooney Coil and Energy	Available	Mario's	12:00 PM
01/09/15	Tour of 'Gene Polisseni Center' Ice Rink followed by an RIT Men's Hockey Game RIT Tigers vs American International	---	RIT	TBD
TBD	Annual ASHRAE Valentines Dinner Dance	---	Colgate Rochester Crozer Divinity School	7:00 PM
02/09/15	Air Flow Measurement, IAQ and Building Pressure Control Mr. Jim Riendeau, Ebtron	Available	Mario's	12:00 PM
03/09/15	TBD	---	Mario's	12:00 PM
04/06/15	Refrigeration Tour		TBD	TBD
05/11/15	Annual ASHRAE Golf Outing and Picnic	---	Ravenwood Golf Club	9:30 AM Golf 4:30 - 8:00 Picnic

Note: Dates, topics and presenters are subject to change, but if this happens we will post any updates to the calendar on our website.

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 Message

Our 2014-2015 ASHRAE program year was kicked September 8th with our annual Clambake at The Burgundy Basin Inn. Our program topic was RIT Golisano Institute for Sustainability (GIS) building: Green design and the unique energy components that went into this building. I want to thank Brian Danker, PE, LEED, AP, BD+C, Associate, Electrical Engineer at M/E Engineering PC, and Mark Maddalina, AIA, LEED, AP, BD+C, Senior Associate, Sustainable Design Director at SWBR Architects. I am sure all who attended enjoyed the presentation as much as I did. The talk was informative, very interesting, as well as presented professionally. We are very fortunate as a chapter to have such knowledgeable professional people here in our own back yard. It is great to see two local design firms working together on the cutting edge of technology.

Paul Kenna and I recently attended the Region I ASHRAE CRC Conference in Tarrytown, NY. The Rochester Chapter was presented with numerous awards from Region I recognizing the 2013 -2014 Chapter accomplishments. We are very fortunate to have such great people volunteering their time for the good of our local ASHRAE chapter. Aside from the course of normal business meetings at the CRC, the great synergy of attending a meeting like this is the opportunity to meet and talk with other ASHRAE members along with the chance to build both personal and professional relationships. I had the privilege of meeting and talking with 2014-2015 ASHRAE Society president elect David Underwood. Our conversation began with discussing the declining number of people entering into the engineering profession, leading to discussing K-12 STEM (Science, Technology, and Engineering & Math). As a member of The National Science, Technology, Engineering, and Mathematics (STEM) Education Coalition, ASHRAE is dedicated to ensuring quality STEM programs for teachers and students all around the world. If you have ever thought about being involved with ASHRAE I would recommend it. Now is the time. I guarantee it will be a very rewarding experience in more ways than one!

I would like to welcome new Rochester ASHRAE Chapter members - Punit Pradeep Shah, Adam Roeder, Robert J Vanskiver, Nicholas Volker. Also all members of YEA (Young Engineers in ASHRAE)

ASHRAE Redline Standards

Did you know you can track changes to ASHRAE Standards with new Redline Documents including ASHRAE Standard 90.1-2013 -- Energy Standard for Buildings Except Low-Rise Residential Buildings? Ever needed to see exactly what changed between a current ASHRAE standard and its previous edition? Now you can.

ASHRAE has released dozens of standards as redline documents for sale online in the ASHRAE Bookstore. These redlines have been developed by Techstreet, ASHRAE's bookstore partner.

A redline indicates the changes made during the standards revision process between the active standard and its previous edition. Additions, deletions, and other formatting and content revisions are clearly displayed as underlined and strikethrough texts, ensuring all changes made between the two documents are quickly and easily identified.

Use redlines to:

- Identify updates in minutes, not hours
- Effortlessly implement changes to procedures, equipment and products

Save time and resources

Purchasers who select the redline option upgrade will receive both the current standard and the redline version in print or digital format. Redlines compare the current standard to the previous original edition (OvO), excluding supplements.

Our October lunch meeting will take place October 6th at Mario's on Monroe Ave. The Program topic will be HARBEC Plastics: Sustainability, Cogen Energy, Economics of Energy in manufacturing, and Challenges of delivering energy across lot boundary lines. Presented by Mr. Bob Bechtold, HARBEC Plastics. So check on the Rochester ASHRAE website, and I hope to see you all there!

Please check out our chapter website at www.rochester.ashraechapters.org or if facebook is your preferred method of communication take a moment to "like" us www.facebook.com/#!/ashraerochester

Edward J. Burns
Rochester ASHRAE President

Ed Burns, 2014-2015 President

Highlights from September ASHRAE Meeting

Paul Kenna receives an award for his work last year as our Chapter Research Promotion Chair.

Christina Walter introduces the guest speakers.

After dinner Brian Danker (left) and Mark Maddalina (right) give a presentation on the Golisano Institute for Sustainability at RIT. The topic was on green building design and unique energy components that went into this building.

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, Ed Burns 585-739-7548 or by email ejb@mechtechhvac.com.
This service is available to ASHRAE members for any local firm in our industry looking for knowledgeable persons in the HVAC&R industry.

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

Membership

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

2014-2015 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	200	0	0	0	0	0	200

ASHRAE

Shaping Tomorrow's Built Environment Today

Student Membership Application

What You'll Get With Your ASHRAE Student Membership!

What's "Cool" In ASHRAE

- ASHRAE maintains standards for indoor air quality
- 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 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
- Discounted 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/studentbookstore 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 SmartStart Program. The SmartStart program locks in the price of student dues for the first year of membership after graduation.

Visit www.ashrae.org/students to join online!

ASHRAE STUDENT MEMBERSHIP APPLICATION

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/privacypolicy.

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 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 ☐ I-P ☐ 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 $199)

Student Member Price: $49.00 USD $_____ USD

CD Only: $39.00 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.

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.**

Board of Governors Meeting Minutes

BOARD OF GOVERNORS MEETING MINUTES

Meeting Date: Friday, September 5, 2014

Location: Carrier Office, Rochester, NY

President / CRC Alternate	Ed Burns	x
President Elect / Program	Christina Walter	x
Secretary	Jeff Close	
Treasurer	Bill Clark	x
Immediate Past President / CRC Delegate	Rob Wind	
Board of Gov. (1)	Branden Farnsworth-Weinblatt	
Board of Gov. (1)	Tom Streber	x
Board of Gov. (2)	Mike Benedict	x
Board of Gov. (2)	Scott Edwards	
Board of Gov. (3)	Eric Smith	x
Board of Gov. (3)	Paul Kenna	x
Attendance	Tim Duprey	
Historian	Lee Loomis	x
Membership Promotion	Jake Hall	
Newsletter Editor	Scott Edwards	
Research Promotion	Paul Kenna	x
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	
Buyers Guide	Stephanie Dempsey	
Valentine's Dinner Dance	Jody M. McGarry	
Refrigeration	Mike Nohle	

Board of Governors Meeting Minutes

Roll Call: The above noted individuals were present.

Call to Order:

Minutes:

- **Previous Meeting Minutes** –no copies distributed or available. All minutes are available electronically only
- **Treasurer's Report :** Bill Clark
  - See attached Treasurer's report dated 09/03/2014.
  - Expense line item for speaker gifts needs to be raised to $350.00
- **Program/ Tech Session:** Chris Walters
  - Reviewed program calendar for 2014/2015
  - Discussed refrigeration tour at new RIT ice rink possibly dovetailing with ASHRAE family night at a hockey game
- **Refrigeration:** Mike Nohle
  - No report see above program/ tech session
- **Tech Awards:** Jeff Wiedrick
  - Rochester chapter received a 2013/2014 tech award to be presented at the October lunch meeting.
- **Attendance:** Tim Duprey
  - Mario's confirmed for 2014/2015 program lunch dates
- **Membership:** Jake Hall
  - Currently, we have 242 total members showing up on the roster. (See attached) We have added (2) members since July 1st
- **Awards:** Al Rodgers
  - 2013/2014 Realto E. Cherne award plaque to be presented at October meeting and Region I tech award
- **Student Activities:** Chris Lukasiewicz
  - MCC Student chapter discussed Chris to reach out to Bill Horton for October meeting hopeful for student participation from MCC student chapter this year.
- **YEA:** Matt Kremers
  - Single night educational series will be starting, they have been a success in the past. Planning an October event.
- **Research:** Paul Kenna
  - RP award received from Region I Way to go!! Decembers meeting to be RP night

Board of Governors Meeting Minutes

- **Newsletter:** Scott Edwards
  - Please be aware of RES deadlines
  - Electronic Newsletter deadline = 18th of each month

- **Buyer's Guide:** Stephanie Dempsey
  - Ed to check with Stephanie and Chuck to see if Stephanie is on board to handle buyers guide this year, if not we will need to find someone to handle this task.

- **Historian:** Lee Loomis
  - Psychometric display was prepared for the Region I CRC. Current project is documentation history of the Realto Cherne Award

- **Website:** Kevin Wind
  - Committee chairs need to forward updated information to Kevin to keep information on website current.

- **Nominating:** (Past President Duty TBD)
  - As our past president is no longer with the chapter delegating past president tasks is an action item.

- **Publicity:** Mark Kukla
  - Possibly step up Face book exposure

- **Valentine's Dinner Dance:** Jody McGarry
  - No report - February date TBD

- **Picnic / Golf Outing:** Jim Browe
  - No report – scheduled for 5/11/2015

- **CRC2016:** Jim Browe
  - No report – budget needs to be created

- **Old Business:**
  - Since Rob is no longer engaged in chapter duties such as nominating, engineering symposium and other duties need to be picked up by others
  - Fall 2014 CRC recap
  - Scholarship update Bill M discussed approval of criteria to RIT and sign off need to get allocated money discussed to RIT. Discussed unfunded vs. funded
  - Audit committee
  - Create drop box for chapter documents
  - Reformate of PayPal account remove Jeff Ellis personal information

Board of Governors Meeting Minutes

- **New Business:**
  - Make sure everyone is logging PAOE points
  - Speaker gifts discussed 14 required at $25.00 each
  - Region I meeting notice visit Ed Burns to set up
  - As board members and committee chairs we have a responsibility to do our job if members cannot attend BOG meeting possibly we can set a teleconference up or call in for committee chairs for officers to report
  - Who has the Rochester Chapter ASHRAE banners

Next Meeting: Friday October 3rd @ 7:30am Carrier 21 Humboldt St. Rochester, NY 14609

- The meeting was adjourned at 8:30

Bellenger Book Corner

WELCOME

TO THE

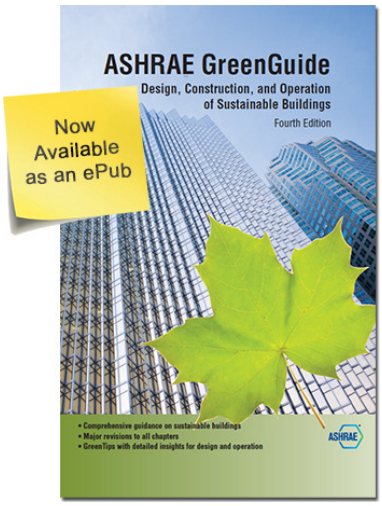
BELLENGER BOOK CORNER

Mrs. Lynn G. Bellenger was an avid reader and supporter of continuing education. She encouraged local firms to create internship opportunities for aspiring engineers in order for them to gain more experience.

Lynn had an extensive library collection of books ranging from introductory HVAC and hydronic systems to controls and energy efficiency manuals written by colleagues and friends that she had met through ASHRAE.

This section is dedicated in Lynn's honor to provide additional reading materials relevant to the ever-changing technology in the HVAC field. We hope this will be an especially valuable section for young engineers who are just starting their careers.

IN THIS ISSUE: GREEN BUILDING DESIGN



Green Building Design is described in more detail in many publications, including "ASHRAE Green Guide: The Design, Construction, and Operation of Sustainable Buildings".

Whether you are an HVAC&R system designer, architect, building owner, building manager/operator, or contractor charged with designing a green building, ASHRAE GreenGuide aims to help you answer your biggest question: **"What do I do now?"** Using an integrated, building systems perspective, it gives you the need-to-know information on what to do, where to turn, what to suggest, and how to interact with other members of the design team in a productive way. Information is provided on each stage of the building process, from planning to operation and maintenance of a facility, with emphasis on teamwork and close coordination among interested parties.
This fourth edition of ASHRAE GreenGuide is an easy-to-use reference with information on almost any subject that should be considered in green-building design.
The GreenTips found throughout this edition highlight techniques, processes, measures, or special systems in a concise, often bulleted, format. Also, information is provided in dual units - Inch-Pound (I-P) and International System (SI) - so that the content is easily applicable worldwide. References and resources mentioned are listed at the end of each chapter for easy access.

There are many other references to Green Building Design:

- **GB&D:** http://gbdmagazine.com/
- **EPA**, http://www.epa.gov/region1/lab/greenbuilding/
- **USGBC:** http://www.usgbc.org/resources/leed-reference-guide-green-building-design-and-construction-global-acps

If you know of a good manual that you would like to share with us, please send it to the newsletter editor Scott Edwards at scott.edwards@trane.com. In order to keep with ASHRAE's goal of supporting continuing education without commercialization, we ask all reading materials recommended for this section be either ASHRAE sponsored or non-vendor specific.

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. 28, 2014

Contact: Jodi Scott
Public Relations
678-539-1140
jscott@ashrae.org

ASHRAE Supports Change to NCEES Education Initiative

ATLANTA – A move by United States engineering and surveying licensing boards to remove a requirement for an additional 30 credit hours for obtaining licensure as a Professional Engineer is met with approval by ASHRAE.
In 2006, the National Council of Examiners for Engineering and Surveying (NCEES) approved language in its model law requiring the additional 30 hours – roughly the equivalent of a master's degree – to obtain a P.E. license. The requirement was slated to take effect in 2020.

At its 2014 annual meeting held Aug. 20-23, NCEES voted to modify that approach, and instead develop an official NCEES position statement that supports additional engineering education beyond a bachelor's degree.

The move was applauded by ASHRAE and other industry associations who had opposed the effort over the last eight years.

"ASHRAE supports this move by the NCEES," ASHRAE President Tom Phoenix, P.E., Fellow ASHRAE, BEMP, BEAP, said. "We saw this as a hurdle to becoming an engineer when engineers are already in short supply. We felt that committing an additional year to obtain 30 credit hours would be a very significant deterrent for many engineers who might otherwise pursue an engineering degree. The current system of examinations and supervision in practice are workable, effective and adaptable resulting in highly competent professional engineers."

Under the change from NCEES, beginning in 2020, the group's model law and model rules will continue to require an engineering bachelor's degree from an EAC/ABET-accredited program to fulfill the education requirement for engineering licensure.

"ASHRAE will continue to develop educational programs that ensure its members remain at the forefront of engineering practice and technologies," Phoenix said.

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ASHRAE News

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ASHRAE Proposes Alternate Compliance Path for Existing Buildings in IAQ Standard

ATLANTA – Recognizing that the ventilation rate procedure in its indoor air quality standard may be difficult to apply in existing buildings, ASHRAE is proposing an alternate compliance path.

Proposed addendum *b* is one of six addenda to ANSI/ASHRAE Standard 62.1-2013, *Ventilation for Acceptable Indoor Air Quality* currently open for public comment from Sept. 5 to Oct. 5, 2014. To comment or learn more, visitwww.ashrae.org/publicreviews.

Responding to increasing interest in sustainability in existing buildings, Standard 62.1 is cited frequently as a criterion for evaluating ventilation systems in existing buildings. Examples include LEED-EBOM, ENERGY STAR and bEQ. Some building categories, such as K-12 schools and office buildings, are frequently renovated and often have multiple zone systems that provide HVAC to similar space types.

Section 6 (including the ventilation rate procedure) of the standard was developed as a design standard. As such, Section 6 and Normative Appendix A have the complexity to allow for many complex system designs and airflow pathways. The scope of the standard states in part that "the provisions of this standard are not intended to be applied retroactively when the standard is used as a mandatory regulation or code."

"For existing buildings, it may be difficult to apply the ventilation rate procedure (VRP), particularly for buildings with multiple-zone recirculating ventilation systems," Roger Hedrick, chair of the Standard 62.1 committee, said. "This is because determination of some of the values needed to calculate ventilation rates may be difficult or impossible because required information is not available. An example is system ventilation efficiency (Ev), used in equation 6.2.5.4."

Proposed addendum *b* provides an alternate path of compliance that is needed by the marketplace for those situations where information required to determine system performance is unavailable or for smaller facilities with straightforward multiple zone applications, he said.

Also open for public comment is proposed addendum *c*, which would revise the current definition of environmental tobacco smoke (ETS) to include emissions from electronic smoking devices and from smoking of cannabis (now allowed by some jurisdictions). The existing requirements for separation of ETS-free spaces from ETS spaces remain unchanged. The proposed addendum also would clarify that provision of acceptable indoor air quality is incompatible with the presence of ETS, including cannabis smoke and e-cigarette emissions.

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Other addenda open for public comment from Sept. 5 to Oct. 5, 2014, are:

- *d* adds an exception to Section 5.8 (Particulate Matter Removal). In sensible-only cooling, the equipment's purpose is to provide only sensible cooling. A chilled beam is an example of this type of equipment. In this case the coil surface would never be wet and the filtration requirements intended for wetted surfaces should not apply. Latent cooling for these systems would be provided by other portions of the system, such as cooling coils in the primary air stream, which would then have independent upstream air filtration.
- *e* modifies Section 8, Operation and Maintenance, incorporating calibration requirements for airflow monitoring sensors and systems and harmonizes Table 8.4.1 (Minimum Maintenance Activity and Frequency) with ASHRAE/ACCA Standard 180-2012, *Standard Practice for Inspection and Maintenance of Commercial-Building HVAC Systems*.
- *p* – At present, all occupancy types are required to provide no less than the area component of the minimum ventilation rate during periods when the space is "expected to be occupied." A previous interpretation clarified that this prohibited the use of occupancy sensors to reduce the ventilation rate to zero during these times. This proposed addendum would allow the ventilation to be reduced to zero through the use of occupancy sensors (not through contaminant or CO_2 measurements) for spaces of selected occupancy types.
- *q* modifies Section 5.2 (Exhaust Duct Location) to clarify requirements by including air classes instead of descriptive language, and modifies the requirements by allowing positively pressurized exhaust ducts inside the space of origin.

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ASHRAE/IES Propose Adding Verification Requirements to Energy Standard

ATLANTA – Multiple compliance options to ensure verification of delivered building envelope performance are being proposed for the ASHRAE/IES energy standard.

"Uncontrolled air leakage has long been an unquantified variable in load calculations for buildings large and small," Chris Mathis said. "It has also been identified as the 'weak link' in many otherwise well insulated building enclosures. These newly proposed envelope testing, inspection and verification procedures are intended to not only help deliver better performing building envelopes, but also should help reduce errors associated with envelope air leakage in equipment sizing calculations."

Addendum *l* is one of 14 proposed addenda to ANSI/ASHRAE/IES Standard 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, currently open for public comment. To comment or learn more, visit www.ashrae.org/publicreviews.

"The addendum addresses several items of timely and critical importance to users," Mathis, a member of the 90.1 committee who helped to develop the proposal, said. "First, it seeks to clarify several inspection and performance verification items that have long been requirements of the standard, with the goal of improving delivered performance and code compliance. Secondly, the proposed addendum includes new language addressing important building envelope inspection and verification requirements, especially as they relate to controlling air leakage. The proposal provides for multiple compliance methods including whole building air leakage testing and continuous air barrier inspection and performance verification procedures."

Mathis notes that the proposed changes would likely have an impact on construction first costs.

"Data provided to the committee showed that the savings of these various approaches to envelope performance verification more than justify the potential increases in first cost," he said. "Additionally, the costs of the verification procedures will go down over time as builders become more familiar with envelope performance testing, inspection and other verification techniques and their construction practices improve due to the important feedback they will provide."

Building enclosure professionals are encouraged to carefully review the proposed changes and to offer their comments to assist ASHRAE in strengthening these important code compliance provisions, Mathis noted.

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Other addenda open for public review from Sept. 5 until Oct. 5, 2014 are:

- *e* relaxes the existing threshold for lighting control alterations while capturing a lot of energy efficiency by requiring more of the control requirements.
- *f* clarifies an exception to the automatic daylight responsive controls requirements for daylight areas under skylights
- *j* removes an exception to the variable air volume system ventilation optimization when energy recovery ventilation is installed.
- *k* requires envelope assemblies to comply with Appendix A when complying with the Energy Cost Budget Method in Appendix G.
- *m* updates the text in Section 10.4.1 on electric motors to provide information about the required efficiency of small electric motors shown in Tables 10.8-4 and 10.8-5. In addition, small electric motors were not included in the scope of the Energy Independence ad Security Act of 2007, but now have performance requirements and are being added to the standard.
- *n* updates the IEER values for air-cooled variable refrigerant flow air conditioners and heat pumps above 65,000 Btu/h. Depending on the cooling capacity and product classes, the new IEERs are between 15 and 20% better than the values they are replacing. The new IEERs become effective on Jan. 1, 2017.
- *o* clarifies wording regarding duct seal class to avoid misinterpretation that compliance with the text that is struck out could substitute for the seal class requirement.
- *p* updates Cooling Technology Institute Standard 201 in Table 6.8.1-7.
- *q* limits systems that can take advantage of the fan power pressure allowance for fully ducted return and/or exhaust air systems.
- *r* revises Section G3.1.1 Baseline HVAC System Type and Description to confirm the hierarchy for selecting baseline HVAC systems, clarify what floors to count and specify what building type to use when no one use is predominant.
- *s* adds Exception 2 to 6.5.2.1 to address single duct variable air volume reheat systems with direct digital control.
- *u* adds new requirements for transfer air in exhaust systems.

Also open for public comment from Sept. 5 to Oct. 20, 2014 is addendum *bm*, which makes the requirements from 90.1-2004 the baseline for modeling when using Appendix G. In addition, it allows Appendix G to be used as a compliance path.

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ASHRAE in the House: Society Explores Path toward Involvement in Residential

ATLANTA – When it comes to energy, the residential sector consumes a fifth of all the primary energy used by the United States (21 percent) and more than half (54 percent) of all energy used by buildings.

Similar trends are also observed in other parts of the world. For example, in Europe, residential buildings account for 75 percent of the total building stock and are responsible for 26.2 percent of the total European Union final energy consumption in 2012.

Those figures reflect big energy use. They also present big opportunities for sustainability.

From economic, environmental and energy security perspectives, a sector responsible for this much energy consumption requires significant attention, notes Tom Phoenix, ASHRAE president.

Just as importantly, because we typically spend nearly 90 percent of our time indoors and most of that time is in the home, the indoor environments of residential buildings have a very significant impact on health, productivity and comfort. Household air pollution from indoor combustion for cooking and heating is estimated by the World Health Organization to result in over 4 million deaths annually worldwide – nearly 8 percent of the total, predominantly in developing economies.

As such, ASHRAE is exploring its role in residential, looking at how it can contribute most effectively to the improvement of the performance of residential buildings. The Society recently released a report, "ASHRAE and the Residential Construction Market," which contains a series of recommendations to the Board of Directors.

"Our members do work on buildings all day and then go home, failing to effectively bring the best of ASHRAE home with us to improve energy efficiency and indoor air quality," Phoenix said. "

Max Sherman, who chairs the Presidential Ad Hoc Committee on the Residential Construction Market that developed the report, noted that one of the first questions the group explored was "what is residential."

He notes that in the United States, residential is often associated with low-rise, single-family houses. This association is evident in the division in scopes between the International Residential Code and the International Building Code and between the scopes of ASHRAE standards related to indoor air quality and energy. Additionally, mid-rise multifamily construction often seems to fall through the cracks and is not adequately addressed in either current residential or nonresidential standards, he said.

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Sherman said the exploration into residential began under the guidance of 2013-14 ASHRAE President Bill Bahnfleth. The committee looked at the importance of the residential sector, what ASHRAE is already doing in the residential sector and how ASHRAE's role is viewed in the residential market. As part of that, a workshop for key stakeholders was held earlier in the year.

Sherman said that their research showed the residential sector is of growing importance.

Studies show there were over 115 million dwellings in the United States (217 million in the European Union) in 2010. The projection is that by 2030 this number will grow to about 141 million in the United States (241 million in the European Union). Given that number is increasing, efficiency needs to increase as well. ASHRAE can play a significant role in the efforts to reduce energy consumption and environmental impact of the global building stock.

"Over 74 percent of all existing homes in the United States were constructed before 1989—before widespread adoption of model energy codes governing their construction," Sherman said. "More than 40 percent of the European residential buildings have been constructed before the 1960s when energy building regulations were very limited. By almost any measure, most of these homes are likely under-insulated, have poorly performing fenestration, have significant envelope air leakage, need upgrades to all HVAC&R components and delivery systems, and contain outdated and inefficient lighting systems when compared to today's basic energy code minimums. In addition, we need to treat these homes as systems that provide good indoor environmental quality for people. These needs define significant opportunity for energy, carbon, peak power and water savings within the residential sector."

Sherman said the group found that while ASHRAE has extensive and perhaps unmatched technical abilities in the residential area, it is far from the dominant player. He notes the Society's involvement requires not only focusing the efforts of its own volunteers but collaborating with existing stakeholders.

The report contains several recommendations to the ASHRAE Board of Directors. Several recommendations have already been acted upon and the rest have been referred to appropriate bodies in the Society. The report and additional information can be found at www.ashrae.org/residential.

The recommendations are designed to raise the priority of residential activity within the Society by increasing visibility of existing work in that area and by providing additional Society resources for future work. ASHRAE will support residential through actions in the report, including the likely formation of a new standing committee. It also plans to involve more residential stakeholders and include more residential content in its research, programs, standards and publications.

Phoenix said that the move into residential also is part of the Society's newly adopted Strategic Plan under an initiative that addresses ASHRAE's role in the residential sector. The plan notes that ASHRAE will create partnerships and collaboration with key organizations in the residential sector.

"Together we look forward to working with new partners to develop technology, perform research and educate owners, builders and designers to improve the residential built environment," he said.

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ASHRAE Provides Assistance to Future Engineers Through Scholarships

ATLANTA – Twenty five students are receiving nearly $130,000 in financial assistance for the 2014-15 school year via ASHRAE's scholarship program.

Over the course of 26 years ASHRAE has awarded more than $1.4 million to over 300 deserving undergraduate and graduate students. The recipients of ASHRAE's scholarship assistance for 2014-15 are:

- **Reuben Trane Scholarships:** $10,000 to be awarded over two years, Hannah Littman, Georgia Institute of Technology, mechanical engineering; Alex Gasper, North Carolina State University, mechanical engineering; and Hunter Bachman, University of Delaware, mechanical engineering. The scholarship was established by the Trane Co. in memory of its founder, an innovative engineer, inventor and business executive.
- **Willis H. Carrier Scholarships:** $10,000 for one year, Emmett Konrad, Iowa State University, mechanical engineering; and Elena Stutzer, University of Alaska, mechanical engineering. The scholarship was established by the Carrier Corp. in memory of its founder, who installed the world's first scientifically designed air-conditioning system.
- **Lynn G. Bellenger Engineering Scholarship:** $5,000 for one year, Katelyn Stenger, Rose-Hulman Institute of Technology, mechanical engineering. The scholarship recognizes a female undergraduate engineering student and is named in memory of the Society's first female president.
- **Lynn G. Bellenger Engineering Technology Scholarship:** $5,000 for one year, Courtney Hart, Vermont Technical College, architectural engineering technology. The scholarship recognizes female engineering technology students and is named in memory of Presidential Member Bellenger.
- **Frank M. Coda Scholarship:** $5,000 for one year, Garth Grunerud, Lakehead University, mechanical engineering. The scholarship was created in memory of ASHRAE's former executive vice president, who served from 1981-2004.
- **David C.J. Peters Scholarship:** $5,000 for one year, Harrison Gray, University of Nevada, mechanical engineering. The scholarship is awarded to qualifying students attending Pennsylvania State University, Virginia Tech, California State University, Oklahoma State University, University of Texas, Clemson University, North Carolina State University, University of Nebraska, Cal Poly State University or University of Nevada. The scholarship was created by Southland Industries to honor Peters, an advocate of recruiting quality.
- **General Scholarships:** $5,000 for one year, Keshavan Kope, University of California, mechanical engineering; and Arkasama Bandyopadhyay, Oklahoma State University, mechanical engineering.
- **Memorial Scholarship:** $5,000 for one year, Nicole Barber, University of Regina, environmental systems engineering.

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The following awards provide one-year $3,000 scholarships:

- **Region III Boggarm S. Setty Scholarship:** Bayu Demerci, Pennsylvania State University, architectural engineering. This scholarship is awarded to an undergraduate engineering student attending an institution within ASHRAE Region III, which covers Delaware, Maryland, Pennsylvania, Virginia and Washington, D.C. and is named after Setty, Fellow ASHRAE, Life Member.
- **Region IV Benny Bootle Scholarship:** Lauriana Cojocaru, Bob Jones University, general engineering. The scholarship was established collaboratively by Region IV and Bootle, a former Region IV director and regional chair on the ASHRAE Board of Directors.
- **Minnesota Chapter Scholarship:** Matthew Hamilton, University of Wisconsin, mechanical engineering.
- **Duane Hanson Scholarship:** Michelle Shadpour, University of Southern California, mechanical engineering. The scholarship was established by Gayner Engineers and is named for the company's former president.
- **Alwin B. Newton Scholarship:** Andrew Nagus, University of Illinois, mechanical engineering. The scholarship is named for an industry pioneer and ASHRAE Fellow who was granted 219 patents.
- **Henry Adams Scholarship:** Jonathan Hankenhof, University of Cincinnati, mechanical engineering. The scholarship was established by Henry Adams, Inc. in memory of its founder, a charter member and sixth president of ASHRAE'S predecessor society, ASHVE, established in 1899.
- **Region VIII Scholarship:** Rezaei Someyeh, University of Tulsa. The scholarship is awarded to students attending schools in ASHRAE Region VIII, which includes Arkansas, Oklahoma, Mexico and parts of Louisiana and Texas.
- **Donald E. Nichols Scholarship:** Anthony Taylor, Tennessee Technological University, mechanical engineering. The scholarship is awarded to an undergraduate engineering student attending Tennessee Technological University. It is named for a former ASHRAE vice president and graduate of Tennessee Technological University.
- **J. Richard Mehalick Scholarship:** Yash Palawat, University of Pittsburgh, mechanical engineering. The Scholarship is named in memory of an ASHRAE member who was a graduate of the University of Pittsburgh and oversaw development of air conditioning equipment used in commercial, military, aerospace and transportation applications.
- **Bachelor of Engineering Technology Scholarship:** Nicholas Guetterman, Southern Illinois University, Industrial Technology.
- **High School Senior Scholarships:** Chelsea Galera, Virginia Tech, mechanical engineering; Vincent Recco, Pennsylvania State University, mechanical engineering; Vasilis Schindle, University of Manitoba, mechanical engineering; and Lance Evans, Wenatchee Valley Community College, environmental systems and refrigeration technology. The scholarships are provided for high school seniors entering their freshman year of college in an engineering or engineering technology program.

For more information on ASHRAE scholarships, visit www.ashrae.org/scholarships. Applications are now being accepted for the 2015-16 undergraduate, regional/chapter and university-specific scholarships. The deadline is Dec. 1, 2014.

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ASHRAE Selected as 2014 Best of Building Award Recipient by USGBC Members

ATLANTA – ASHRAE is pleased to announce today that it received the U.S. Green Building Council's (USGBC) Best of Building award for Best Professional Association.

"ASHRAE is proud to be recognized as the Best Professional Association in the Best of Building Awards," Tom Phoenix, ASHRAE president, said. "ASHRAE strives to set an example for the industry in sustainability through efforts such as increasing the stringency of its standards, developing guidance that will lead to high performing buildings and offering resources to professionals in the building industry to keep them up to speed with the latest sustainable technology. We look forward to building on our foundation as future industry issues come to the forefront."

The Best of Building Awards celebrates the year's best products, projects, organizations and individuals making an impact in green building. Nominees and winners were selected exclusively by the members of USGBC, a vibrant and diverse community of nearly 13,000 of the world's leading organizations invested in sustainability.

"USGBC's membership represents a diverse community of leaders that have made significant contributions to the advancement of green building," said Mahesh Ramanujam, chief operating officer, USGBC. "We congratulate ASHRAE as these peer-chosen awards reflect new and innovative achievements that are to be commended."

There are 30, peer-selected awardees selected for 48 individual categories in the competition. Awardees were selected based on their region, size and area of specialization and are designed to showcase the most progressive, innovative organizations in the fields of green architecture, landscape, engineering, interior design and manufacturing. A full list of winners can be viewed at usgbc.org.

About ASHRAE

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About the U.S. Green Building Council

The U.S. Green Building Council (USGBC) is a non-profit that is committed to a prosperous and sustainable future through cost-efficient and energy-saving green buildings. USGBC works toward its mission of market transformation through its LEED green building program, robust educational offerings, a nationwide network of chapters and affiliates, the annual Greenbuild International Conference & Expo, the Center for Green Schools, and advocacy in support of public policy that encourages and enables green buildings and communities. For more information, visit usgbc.org, explore the Green Building Information Gateway (GBIG) and connect on Twitter, Facebook and LinkedIn.

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ASHRAE Releases Legionellosis Standard for Fourth Public Review Draft

ATLANTA - A fourth version of ASHRAE's proposed legionellosis standard is open for public comment until November 10, 2014. Standard 188P, *Legionellosis: Risk Management for Building Water Systems*, currently under development, will establish minimum legionellosis risk management requirements for building water systems. The standard is intended for use by building owners and managers and those involved in the design, construction, installation, commissioning, operation, maintenance and service of centralized building water systems and components.

The draft of the document and instructions on submitting comments can be found at www.ashrae.org/publicreviews. The proposed standard will be available for access until Nov. 10, 2014.

Changes to the proposed standard since its last public review in January 2013 include:

- Alignment of the document with the revised title, purpose and scope.
- Removal of hazard analysis and critical control points (HACCP) terminology; some of the principles of the HACCP process are consistent with the process utilized in the document.
- Inclusion of a normative appendix for health care facilities meeting specific requirements that provides an alternate compliance path that is more stringent than for other facilities.
- More emphasis on requirements for design, construction, installation, commissioning, operation, maintenance and service.

Tom Watson, chair of the Standard 188P committee, notes that the standard contains both normative sections and appendices that specify what is required to comply. It also contains informative appendices and references as guidance about how to do things that may be necessary for a given building water system.

"Building water systems vary substantially in their design and their capability for transmission of Legionella," Watson said. "Scientific evidence is either lacking or inconclusive in certain aspects of Legionella control. The informative guidance is included to provide suggestions, recommendations and references."

To learn more about actions regarding ASHRAE standards, visit www.ashrae.org/listserv. There, ASHRAE provides subscriptions to a variety of listserves, including one for Standard 188P, that enable interested parties to stay up to date with the latest news, publication offerings, and various other Society activities.

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ASHRAE, AHR Expo Return to Chicago for 2015 Winter Conference, Expo

ATLANTA – Registration is open for ASHRAE's 2015 Winter Conference in Chicago where attendees have the chance to discuss and examine the latest topics in the building industry, network; participate in technical tours; attend ASHRAE Learning Institute courses; earn professional credits; and obtain ASHRAE certifications.

The ASHRAE Conference takes place Jan. 24-28, Palmer House Hilton, while the ASHRAE co-sponsored AHR Expo is held Jan. 26-28, McCormick Place. Complete Conference information and registration can be found at www.ashrae.org/chicago, and Expo information at www.ahrexpo.com.

In keeping with ASHRAE's goal of continuing education, the Conference offers over 200 Professional Development Hours, as well as Continuing Education Units, which can be applied toward a Professional Engineering license.

The Technical Program features more than 100 sessions and 300 speakers over eight tracks: Systems and Equipment; Fundamentals and Applications; Industrial Facilities (new); Large Buildings: Mission Critical Facilities and Applications (new); Energy Efficiency; Life Safety (new); Design of Energy and Water Efficient Systems (new); Hospital Design and Codes (new). Specifically, the program features sessions on cold climate design, tall buildings, hospital and clean room design and data centers.

The ASHRAE Learning Institute (ALI) offers 20 professional development seminars and short courses to stay current on HVAC&R trends. Among them is a new course on Standard 202, *Commissioning Process for Buildings and Systems*, in addition to updates to Standard 90.1, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, and 62.1, *Ventilation for Acceptable Indoor Air Quality*. Training topics include commissioning, energy management, Standard 55, *Thermal Environmental Conditions for Human Occupancy*, energy efficient data centers, healthcare facilities, building energy audits, the coming smart grid and ground source heat pumps. Register at www.ashrae.org/chicagocourses.

Additionally, ASHRAE offers a special administration of all six certifications on Jan. 28: 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). Register at www.ashrae.org/certification.

The keynote speaker at the opening Plenary Session is Aron Ralston, adventurer and subject of the film *127 Hours*. In April 2003, during a hike into a remote area of Utah's canyon country in April 2003, Ralston accidentally dislodged a boulder that crushed and pinned his right hand. After six days of entrapment alone, he freed himself with a cheap multi-tool knife and hiked to a miraculous rescue. Since his amputation, Ralston has written an internationally bestselling book, *Between a Rock and a Hard Place*, later turned into a movie nominated for six Oscars.

Also offered are technical tours, which include Walgreens net zero store, a brewery and McCormick Place.

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