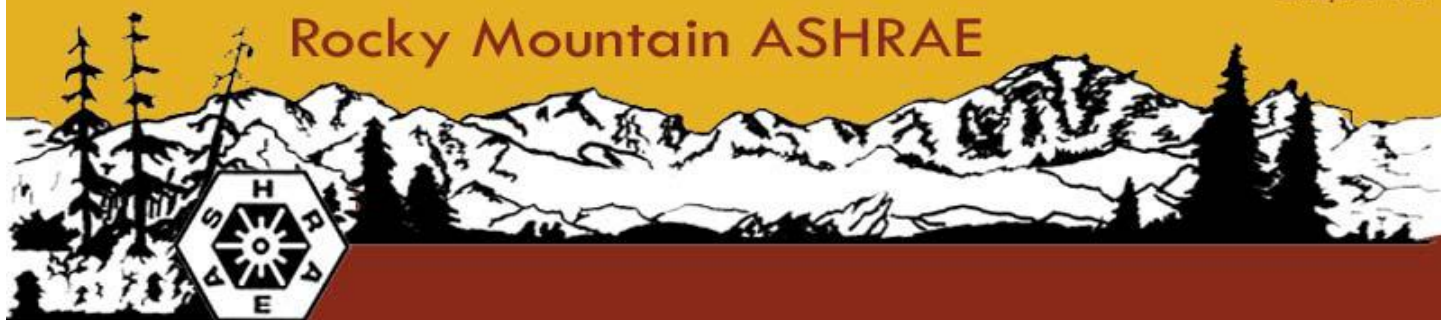


Rocky Mountain ASHRAE



VOLUME 53, NUMBER 2

OCTOBER 2011

EDITOR: MEGAN VAN WIENEN

OCTOBER MEETING

Denver Meeting Information

DATE: Wednesday, October 5, 2011
 TIME: 11:30 PM Registration
 12:00 PM Program & Lunch
 LOCATION: Blake Street Tavern
 2301 Blake St
 Denver, CO 80205
 RSVP: Jessie Jones jjones@rmhgroup.com
 COST: \$25 Rocky Mtn Chapter Members
 *Reservation made by 12:00 PM 10/3
 \$35 Non-members and late reservations
 \$20 Students

Energy Modeling and Efficiency Incentives

The energy modeling field has been growing fast over the past few years, and there are more and more incentive and certification programs that will lead a design team to include modeling on projects. This discussion will cover various rebates available for energy efficiency in Colorado from Federal and local government, and from local utilities. An overview of available rebates and energy efficiency programs from Xcel Energy will be provided. Also, we will give an update on the state of various modeling tools and appropriate applications. Come to learn how to increase opportunities for energy efficiency on your projects through rebates and incentives with and without energy modeling, and bring your own successes or lessons learned to share.

Aleka Pappas is a Building Energy Engineer with Group14 Engineering, and manages a contract with Xcel Energy to provide consulting for their Energy Design Assistance program. In addition to her energy modeling work in Colorado, Aleka has managed building energy analysis projects across the United States and Canada including laboratories in Toronto and Philadelphia, K-12 schools in New Orleans, and recreation centers in the Midwest and Southwest. She has a BA in Architecture from Washington University in St Louis, and an MS in Building Systems Engineering from CU Boulder.

Special Thank You

Research Promotion 2010 – 2011

THANK YOU to all of our Research Promotion donors from 2010 - 2011 we raised \$62,616 for research last year, we will be having donor recognition night at the December meeting. Please consider giving to the 2011 - 2012 campaign as we are hoping to get the Rocky Mountain chapter to be the highest fundraiser in all of society. We were less than \$6,000 away last year let's blow by everyone and hit the goal of \$75,000 this year.

Table of Contents

PRESIDENT'S MESSAGE	2
ROCKY MOUNTAIN ROSTER	3
ASHRAE RESEARCH	4
SUSTAINABLE ENGINEERING COMMITTEE	6
YEA (BEER TOUR INFO)	8
MEMBERSHIP PROMOTION	11
HISTORY	13
STUDENT ACTIVITIES	14
ASHRAE SOCIETY NEWS AND PRESS RELEASES	15

PRESIDENT'S MESSAGE

Dear Rocky Mountain ASHRAE:

First off, I would like to thank David Abellon with LSW Engineers for coming to town last month and presenting at both our lunch and dinner meetings. We had a pretty solid turnout for our first meeting. The chapter will be planting a tree via the Mile Hi Million initiative in the name of each of our speakers this year.

It's our intent to continue providing relevant topics for educational purposes to our members and guests. If there is a particular topic that you think would be beneficial, please let me know and we'll do our best to include it in this year's presentations. At the very least, we can plan ahead and have it scheduled for next year.

At our October meeting, Aleka Pappas with Group 14 will present on the "Xcel Energy Rebates." I hope you'll join us for lunch and a wonderful speaker.

This will be a lunch only meeting here in Denver. Please note that the venue had to change temporarily to the Blake Street Tavern. We hope to be back at Dave and Busters as soon as they complete a minor renovation.

In addition to our monthly meeting we will once again host an ASHRAE Beer Tour on 21Oct11. Spots are limited so be sure to sign up as soon as possible. Proceeds from this event will benefit ASHRAE Research.

Speaking of ASHRAE Research I want to let you know that the Rocky Mountain Chapter has set up a specific research endowed trust in collaboration with the ASHRAE Society Foundation. Our plans as a Chapter are to continue to funnel a large amount of our Technical Conference proceeds into this ASHRAE Society Foundation endowed trust. Over time this fund will continue to grow and become more self sustaining down the road. Although we have challenges today the needs of the future will be great as well and we are excited to help contribute funds for this future challenge. Any member can contribute to the ASHRAE Foundation and I encourage you to do so. Please visit www.ashrae.org/foundation for additional information.

Also be on the lookout for YEA (Young Engineers in ASHRAE) Social Hours. Whether you're recognized as a YEA individual or not, we encourage you to participate in this event.

If you have any questions or concerns, please do not hesitate to contact me. Thanks a lot and have a great day!

Best Regards,

Adam Bishop

Chapter President
Rocky Mountain Chapter of ASHRAE

ROCKY MOUNTAIN ROSTER

Rocky Mountain ASHRAE 2011 - 2012 Board of Governors

Title/Committee Chair	Name	Email	Phone
President	Adam Bishop	adamb@cfmcompany.com	303.607.4438
President-elect/Tech Conf.	Michelle Swanson	mswanson@rmhgroup.com	303.239.0909
Vice President/CTTC Chair	Jon Rundquist	jonathan.e.rundquist@jci.com	303.904.7923
Secretary	Jessie Jones	jjones@rmhgroup.com	303.239.0909
Treasurer	Mike Harrington	mharrington@setpointsystems.com	303.733.2300
Newsletter Editor	Megan Van Wieren	MeganLVanWieren@eaton.com	303.974.1230
Past President	Ken Urbanek	kurbanek@mkkeng.com	303.796.6000
Director	Aaron Zimmerman	azimmerman@mkkeng.com	303.796.6088
Director	John Stumpf	jstumpf@CarrierWest.com	720.472.0422
Northern Section Chair	Mike Fulton	mfulton@westernmechanicalsolutions.com	720.934.8273
Membership	Chris Garofoli	CGarofoli@victaulic.com	303.396.9006
Historian	Dale Eismueller	dale@werc.com	303.406.4080
Website	Tony Anderson	tanderson@airpurificationcompany.com	303.428.2800
Student Activities	Craig Wanklyn	craig.wanklyn@me-engineers.com	303.421.6655
Sustainable Engineering	Celeste Cizik	CelestelCizik@eaton.com	303.974.1212
Government Activities	Celeste Cizik	CelestelCizik@eaton.com	303.974.1212

ASHRAE RESEARCH



Don't Wait, Please Donate for the 2011-2012 ASHRAE Year

Mail Check To:
 ASHRAE RESEARCH
 c/o The RMH Group
 12600 W Colfax Ave, A-400
 Lakewood, CO 80215

Your contribution puts us closer to achieving our goal. Please send what you can today!
 * Individual contributions of \$100 or more and Corporate contributions of \$150 or more receive this year's Commemorative Coin And Honor Roll Contribution status.

Name: _____

Company: _____

Address: _____

Telephone: _____

INDIVIDUAL	\$25.00	\$50.00	\$75.00	\$100.00
CORPORATE	\$75.00	\$100.00	\$175.00	\$250.00

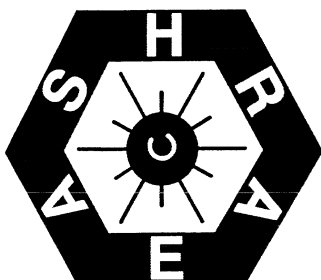
Other: _____

Other: _____

Or Contact Michelle Swanson at: 303-239-2724

THANK YOU TO the Honor Roll Donors: Mark Labac, Ronald Thomas, Michael Haughey, Cator Ruma & Associates, Mary S Reilly, SBSA Inc., Kevin Ainsworth, Adam Bishop, Ken Urbanek, John Stumpf, Jon Rundquist, Kyle Manske, Megan Van Wieren, Celeste, Cizik, Jessie Jones, Mike Harrington, Aaron Zimmerman, Michelle Swanson

























So far we have raised \$3,195 for ASHRAE Research!!!



ROCKY MOUNTAIN CHAPTER

ASHRAE RESEARCH

ASHRAE RESEARCH DONOR LEVELS AND RECOGNITION

Presented Golden Circle Commemorative Sculpture							
Individually recognized at President's Luncheon*							
Invited to President's Luncheon*							
Invited to Board of Directors Luncheon*							
Listed on special Display at President's Luncheon*							
Group photo published in spring issue of ASHRAE Insights							
Receives personalized shadowbox plaque							-----
Listed on RP Display in Registration							
Receives Gold ASHRAE Commemorative Coin and Plaque							
Receives Silver ASHRAE Commemorative Coin and Plaque					-----	-----	-----
Receives Bronze ASHRAE Commemorative Coin and Plaque				-----	-----	-----	-----
Receives Antique ASHRAE Commemorative Coin and Plaque			-----	-----	-----	-----	-----
Receives blue desktop coin holder		-----	-----	-----	-----	-----	-----
Listed in annual Investor Honor Roll							
	Honor Roll Donor \$150- \$249	Major Donor – Antique \$250- \$499	Major Donor – Bronze \$500- \$999	Major Donor – Silver \$1000- \$4,999	ASHRAE Associate \$2,500- \$4,999	ASHRAE Partner \$5,000- \$9,999	Golden Circle Donor \$10,000+

SUSTAINABLE ENGINEERING COMMITTEE

October Meeting

DATE: Wednesday, October 19, 2011
TIME: 12PM – 1PM
LOCATION: MKK Consulting Engineers' Office
RSVP: Megan Van Wieren
MeganLVanWieren@eaton.com

The Sustainable Engineering Committee is committed to advocate sustainable design, construction and operation to our members, the industry and our community through advocacy group meetings and educational seminars. We strive to promote sustainable practices at all ASHRAE events and sponsored activities.

This committee meets once a month for planning and coordination. If you have questions about the committee, please contact Celeste Cizik at sustainable@rockymtnashrae.com.

2013 ANNUAL MEETING SUSTAINABILITY PROJECT

Denver Rescue Mission | Lawrence Street

In preparation for the 2013 Annual ASHRAE Society Meeting, the Rocky Mountain chapter has selected the Denver Rescue Mission Lawrence Street facility as the Annual Meeting Sustainability Project in an effort to reduce the environmental impact of the meeting. Each year, ASHRAE selects a Sustainability Project for members to volunteer their time and services. This project traditionally is done for a non-profit organization that would significantly benefit from energy efficiency upgrades and improved systems. A recent project organized by the Utah chapter involved adding a solar hot water heating system to an existing YWCA.

The Lawrence Street Shelter is the Mission's central outreach location. Tens of thousands of poor and needy people come to this facility each year for shelter, food, clothing, medical care, client services, and chapel services. At the Lawrence Street Shelter, all who are hungry: families, seniors, men, women, and children are welcome for a nutritious meal. The Lawrence Street Shelter serves three meals a day, seven days a week, three hundred sixty-five days a year. With 200 shelter beds and 100 emergency overflow cots, up to 300 men can find a warm bed and a safe place to sleep each night. Families and individuals come to their "closet" for everything from warm gloves to business attire for job interviews. Case managers help up to 2,000 individuals each month with needs such as food boxes, baby diapers, furniture, clothing, household goods, and referrals to other agencies. Program participants can receive free medical, dental, optical, and chiropractic treatment at the Mission's clinic.

The SEC will be working with Energy Outreach Colorado, a nonprofit organization that offers energy assistance to limited income households and for energy efficiency upgrades for affordable housing and nonprofit facilities. Since 1989, Energy Outreach Colorado has raised more than \$136 million to help Colorado's neediest families and seniors afford home energy. Energy Outreach is a leading nonprofit in the nation for "demonstrating ongoing fiscal excellence," according to Charity Navigator, an independent charity evaluator that annually ranks the financial health of U.S. charities.

If you or your organization would like to assist in the 2013 Annual Meeting Sustainability Project, please contact Brian Lynch at 720.472.1037 or BL@westernmechanicalsolutions.com.

GREENING OUR MEETINGS

The Rocky Mountain Chapter of ASHRAE will present a free raffle ticket to anyone taking public transportation to the monthly ASHRAE meeting.

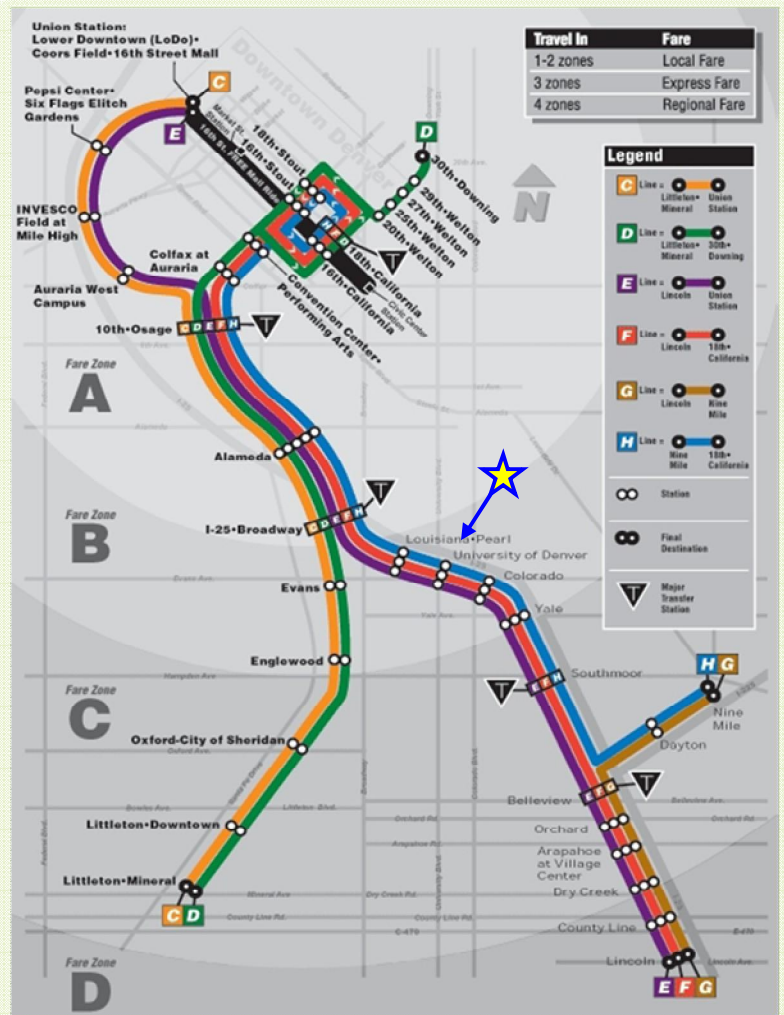
One raffle ticket will be given to each participant for each meeting. Visit www.rtd-denver.com for system maps and times or contact ridegreen@rockymtnashrae.com for further assistance.

Acceptable modes of alternative transportation:

- ✓ Walking
- ✓ Bicycling
- ✓ Bus
- ✓ Light Rail
- ✓ Alternative Fuel Vehicle
- ✓ High Efficiency Vehicle (35+ mpg)
- ✓ Carpooling (2 or more persons)

The ASHRAE meeting (Denver) at Dave & Buster's is located at the Colorado Light Rail Station for lines E, F and H. Any bus lines that pass through the Evans and Colorado intersection will also get you to Dave & Buster's.

Directions to the Blake Street Tavern can be found [here](#).



YEA (YOUNG ENGINEERS IN ASHRAE)

YEA Events – Happy Hour

DATE: 3rd Thursday of each Month

TIME & LOCATION: TBD

RSVP: Tim Hughes
tim.j.hughes@siemens.com

The Young Engineers in ASHRAE Committee is committed to enhancing the young professional member benefits, 35 years old and younger, by identifying activities and services focused on their needs.

. If you have questions about the committee, please contact Tim Hughes at tim.j.hughes@siemens.com .

ASHRAE Beer Tour

Sponsored by the Young Engineers in ASHRAE (YEA) Committee
Proceeds benefiting ASHRAE Research



\$50 per person

(includes the bus, brewery tours, beer, breakfast and lunch)

Fundraisers: \$15 for Brewery Tour T-shirt

\$5 for Can Coozie

Must adhere to proper dress code (long pants, boots or close-toed shoes, no jewelry, etc.)

Friday, October 21, 2011

RSVP to Jessie Jones by [Wednesday, October 12.](#)

For RSVP or more information, contact:

Jessie Jones

The RMH Group, Inc.

Direct: (303) 312-4641
E-Mail: jjones@rmhgroup.com

ANNUAL DINNER PASS

As a convenience to our members the Rocky Mountain Chapter of ASHRAE is now selling Annual Dinner Passes for the monthly chapter meetings! Late registration, received after September 5th, will be allowed up to the October 3rd meeting but it will not include the free dinner.

If you have any questions regarding the Annual Dinner Pass please contact the Rocky Mountain Chapter Treasurer Mike Harrington via e-mail at mharrington@setpointsystems.com.

What does it cost?

- An Annual Dinner Pass costs \$200.

What do you get?

- With the purchase of the Annual Dinner pass, you get 1 free dinner. That's right buy 8 dinners at normal price and the last one is on us.
- Smoother check-in and recognition at September and October's meeting.

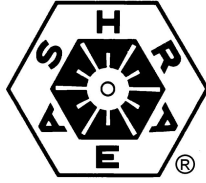
How do you get one?

- Fill out the form below and bring it with your check or credit card information to the September meeting.

Corporate Passes?

- Annual passes also work great as Corporate Passes. Buy one or more and make them available to whoever is available to attend the monthly meeting.

ANNUAL DINNER PASS APPLICATION



ANNUAL DINNER PASS – REGISTRATION FORM

ROCKY MOUNTAIN ASHRAE CHAPTER

Please photocopy this form for additional attendees and for your records.

Individual Registration:

Your Name _____ Title _____

Company _____

Mailing Address _____

Phone _____ Fax _____

Company Registration:

Company _____

Mailing Address _____

Phone _____ Fax _____

- Please sign me up for an Annual Dinner Pass at a cost of \$200
- Please register my company for _____ Annual Dinner Passes at a cost of \$200 per pass.

Enclosed please find a check for: \$ _____ Mastercard/Visa total: \$ _____

Please make checks payable to Rocky Mountain Chapter ASHRAE

MC# _____ Cardholder Name _____ Exp Date: _____

VISA# _____ Cardholder Name _____ Exp Date: _____

Please fill out the above below and bring it with your check or credit card information to the September meeting. No refunds allowed.

For questions please contact: Mike Harrington via e-mail at mharrington@setpointsystems.com.

MEMBERSHIP PROMOTION

Welcome to the "The Membership Promotion Page." We would like time to welcome the following new ASHRAE members for the month of October:

- Mr. Ryan Hammond
- Mr. Paul Marlow
- Mr. Steven Nelson
- Mr. David Sietsema
- Mrs. Danielle Swarts

If you have questions or need membership assistance please send an email to cgarofoli@victaulic.com or call Chris Garofoli at 303-396-9006.

Also, please look around your company and through your contacts to let people know about the benefits of joining ASHRAE. We continue to bring in new young members of the industry to keep them involved with technology and standard advancements.

ROCKY MOUNTAIN MEMBERSHIP APPLICATION



Name: _____ (Last) _____ (First) _____ (MI)
Status: Renewal ____ New Member ____ Address Change ____

Please circle preferred mailing address: HOME BUSINESS

Home Address and Phone

Business Name, Address and Phone

p: _____

p: _____

Preferred email address: _____

Society Membership Number / Grade: _____

Name Tag (\$10.00) Paid? Y N

Name to appear on name tag as: _____

I would like to be contacted about serving on one of the following committees or functions (Please circle):

- | | | |
|-----------------------|-----------------------------|--|
| A. Newsletter | F. Chapter Historian | K. Spouse's Night / Social Committee |
| B. Membership | G. Technical Seminars | L. Colorado Engineering Council (Committee Help) |
| C. Meeting Attendance | H. Research Fund Promotions | M. General |
| D. Education | I. Monthly Meeting Programs | N. Energy Committee |
| E. Golf | J. Publicity | O. Sustainable Engineering Committee |

Please mail this invoice and your check for \$50.00 (2010 / 2011 year) + \$10.00 (Name Tag if requested) payable to Rocky Mountain Chapter ASHRAE to the address listed below. ASHRAE will invoice you for both society and local dues every year following the first year.

Chris Garofoli
Rocky Mountain Chapter ASHRAE Membership Promotion Chair
c/o Victaulic
3416 Alcott Street Denver, CO 80211

cgarofoli@victaulic.com

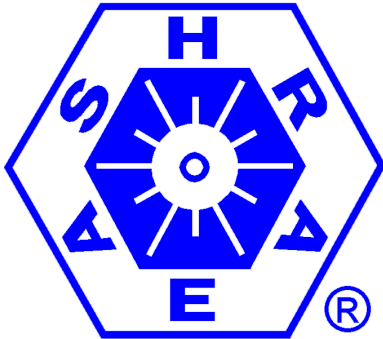
HISTORY

“October 2009 Lunch Meeting”

At this time last year in our October meeting we had a speaker at Maggiano's in the Denver Pavillions his name was Alan Niles he discussed ground source heat pumps. He presented the basic commercial ground loop layout, energy comparisons of ground loops, sample project designs, sample project economics, and LEED credits.

Alan Niles, who is employed by Water Furnace, was a graduate of the University of Oklahoma with a BS Degree in Mechanical Engineering. He has over 25 years in the HVAC industry dedicated the heat pumps with various manufacturers.

STUDENT ACTIVITIES



Rocky Mountain Chapter

STUDENT SCHOLARSHIPS

**FOUR SCHOLARSHIPS IN AN AMOUNT UP TO \$1,000 EACH
TO BE AWARDED LOCALLY
BY THE ROCKY MOUNTAIN CHAPTER OF ASHRAE**

The scholarships will be awarded to full or part time students who plan to attend the spring semester. Selection will be based on interest, goals, need, and academic achievement.

The announcement of awards will occur at the **Rocky Mountain ASHRAE** Student Night

November 2, 2011

Interested students must submit the following:

- a. Application General Information
- b. A cover letter (two-page maximum) describing interests, professional goals, internship experience, and financial need.
- c. A one page current resume.
- d. A one page document describing scholastic achievement.

Interested students should submit materials via mail to the address below or electronically to the email address below by Wednesday, October 26, 2011 to:

Craig Wanklyn
M-E Engineers, Inc.
10055 W. 43rd Avenue
Wheat Ridge, CO 80033

phone: (303) 421-6655
craig.wanklyn@me-engineers.com

CONTACT YOUR FACULTY ADVISOR, STUDENT BRANCH PRESIDENT, OR CRAIG WANKLYN FOR MORE DETAILS. YOU MAY ALSO CHECK OUT WWW.ROCKYMTNASHRAE.COM FOR MORE INFORMATION

ASHRAE SOCIETY NEWS AND PRESS RELEASES

For Release:
Sept. 20, 2011

Contact: Amanda Dean
Public Relations
678-539-1216
adean@ashrae.org

ASHRAE, AHR Expo Return to Chicago for 2012 Winter Conference

ATLANTA—Registration is open for ASHRAE's 2012 Winter Conference in Chicago where attendees have the chance to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design, as well as participate in technical tours; attend ASHRAE Learning Institute courses; earn professional credits; and obtain ASHRAE certifications.

The 2012 Winter Conference takes place Jan. 21-25 at the Palmer House Hilton. The International Air-Conditioning, Heating, Refrigerating Expo®, held in conjunction with the Winter Conference, will run Jan. 23-25. The Expo, www.ahrexpo.com, is held at the McCormick Place.

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 90 programs and 300 speakers addressing energy modeling applications; integrated design; healthcare, laboratories and data center applications, among others; operations and maintenance; high performance buildings; as well as refrigeration and systems and equipment sessions. Additionally, there is a new "mini-conference" on Installation, Operation & Maintenance of HVAC Systems built within the Technical Program. The O&M mini-conference is scheduled on Jan. 22-23. The full Technical Program, which will be announced later this month, offers the opportunity to earn a year's worth of PDHs, NY PDHs, AIA LUs and LEED AP credits.

The Chicago Virtual Conference is included with a paid Conference registration—comp and single day registration excluded—and includes on-demand access to all speakers' audio presentations synced to their presentations. Attendees and speakers can post comments on the presentations for a two-week period. Those not attending the Chicago Winter Conference in person may register for the Virtual Conference only. Register at www.ashrae.org/chicagovirtual.

Five Professional Development Seminars and 15 Short Courses are offered to help industry professionals stay current on HVAC technology, including how to apply the newest ASHRAE standards. The ASHRAE Learning Institute (ALI) is offering a new half-day short course on the basics of combined heating and power systems, as well as updates to the full-day professional development seminars focusing on Standards 62.1, Ventilation for Acceptable Indoor Air Quality, and 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings. ALI courses are approved for renewal of professional engineer and professional architect licenses, as well as for industry certification programs.

Additionally, ASHRAE offers a special administration of all six certification examinations on Jan. 25: 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). ASHRAE's certification program recognizes

industry professionals who have mastered knowledge and skills reflecting best practices in certain aspects of building design and operations. More information on each certification can be found at www.ashrae.org/chicagoexams.

ASHRAE SOCIETY NEWS – CONTINUED

ASHRAE Conference technical tours give you a first-hand look at technology developed by members to further the industry. Tours include the North Central College Residential and Recreation Center, Loyola University Information Commons, the University of Chicago Mansueto Library and Rush University Medical Center Central Energy Plant.

The Winter Conference also includes a program designed for students of the Society. Highlights of the program, held on Sunday, Jan. 22, include speakers, a professional development session and presentations by the recipients of the Student Design Competition and a technical tour of the University of Chicago library.

To register and for complete Conference information, visit www.ashrae.org/chicago.

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

ASHRAE SOCIETY NEWS – CONTINUED

For Release:
Sept. 23, 2011

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

Alternative to ASHRAE Standard 62.1 Ventilation Rate Procedure Proposed

ATLANTA – Public comment is being sought on the proposed allowance of an additional default value to the ventilation rate procedure in ASHRAE's indoor air quality standard.

ANSI/ASHRAE Standard 62.1-2010, Ventilation for Acceptable Indoor Air Quality, sets minimum ventilation rates and other requirements for commercial and institutional buildings. The ventilation rate procedure provides a prescriptive method for determining minimum ventilation requirements. It accounts for pollutant sources from both the building and its occupants, and allows the designer to account for the efficiency of different ventilation systems when delivering outdoor air to the breathing zone.

Some users of Standard 62.1 believe that the ventilation rate procedure is "too complicated," according to Standard 62.1 chair Roger Hedrick. "While the 62.1 committee disagrees with this in most cases – the basics of the VRP are quite straightforward – the committee agrees that application of the multiple-zone recirculating system equations described in Section 6.2.5 and Appendix A can be complex."

Proposed addendum f, open for public review until Oct. 16, provides an additional default value for V_{pz} .

"Difficulty determining an appropriate value for V_{pz} seems to be a frequent issue with users of the multiple space equations," he said. "The committee decided that supplying a default value would simplify application. However, the default value is necessarily conservative. In a large number of applications, determining the 'lowest zone primary airflow value expected at the design condition analyzed' will result in a value for V_{pz} that is higher than the default, resulting in a reduced outdoor air intake requirement."

Addendum f is open for public review until Oct. 16, 2011, along with proposed addendum h. Also, proposed addendum g to the standard is open for public review until Oct. 31, 2011. For more information, visit www.ashrae.org/publicreviews. The other addenda open for public review are:

- addendum h (until Oct. 16). Table 6.1 in the standard includes ventilation rates for "Sports arena (play area)" and "Gym, stadium (play area)." Both space types have ventilation rates based on floor area only, with a per person rate of zero. Users of the standard have expressed interest in applying demand controlled ventilation to these space types, which is effectively prohibited by the lack of a per person component to the ventilation rate. This proposed addendum replaces both of these space types with "Gym, Sports Arena (play area)," with $R_p = 20$ cfm/person and $R_a = 0.06$ cfm/ft². In most cases, the overall ventilation rate for these spaces is expected to decrease, possibly significantly, according to Hedrick.

One concern about allowing CO₂-based demand controlled ventilation in these spaces is that the volume per person in these spaces is typically large, which means that CO₂ concentration changes will have longer than usual lag times behind occupancy changes, he noted.

- Addendum g (open until Oct. 31). Currently users are directed that for space types that are not listed in Table 6-1 they should select the space type from the table that is most similar to the space being designed. However, some space types are actually ventilated using the exhaust ventilation requirements of Section 6.5 and Table 6-4. This proposed addendum adds language directing the user to select the space type that is most similar to the space in question from either Table 6-1 or 6-4, and to design the ventilation for the space according to the Section 6.2 or 6.5, as appropriate

ASHRAE, founded in 1894, is an international organization of some 50,000 persons. ASHRAE fulfills its mission of advancing heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

ODDS AND ENDS

ASHRAE Jobs Website Tool:

We thought you and your fellow members would like to know about this valuable tool for ASHRAE Members and HVAC&R hiring authorities. We have prepared a page detailing the story of [ASHRAEjobs.com and its success here](https://www.ashraejobs.com).

The Career Center offers several benefits for hiring authorities and job seekers:

- ASHRAE Jobs is user friendly. Its products and services equal the offerings from traditional big box boards such as Monster.com, yet its information and postings are specific to the ASHRAE Community.
- Due to its focus on HVAC&R engineering, Job seekers have a more effective search experience. Employers also have immediate access to a pre-filtered pool of talent for skills and experience.
- A unique feature is ASHRAE members are highlighted in search results. The online job application and resume forms require applicants to identify themselves by membership status. Employers can sort applications and resumes by membership status.

I would invite your Chapter to participate in this program by creating a link on your website to the ASHRAE Jobs Career Center. You will find attached a copy of the logo to use on your homepage. We would also appreciate your help to spread the news about ASHRAE Jobs' success through an announcement through your eNewsletter, blogs, etc.

If you have questions, I or John von Harz (Services Manager at jvonharz@ashraejobs.com) will be pleased to answer them.

2011 AFEC

Advanced Facilities Management and Engineering
Conference and Exhibits



RESTORE. SURVIVE. *Thrive.*



MANUFACTURING SCHOOLS HOSPITALS HOTELS APARTMENTS OFFICE BUILDINGS DATA CENTERS

OCTOBER 5-6, 2011

DENVER MERCHANDISE MART EXPO HALL
58TH AVE. AND I-25 - DENVER, CO

www.afec.biz