



January MEETING

Denver Meeting

Date: Wednesday, January 12, 2011

Time: 5:30 Registration
6:30 Dinner
7:00 Program Begins

Location: Dave & Buster's
2000 S. Colorado Blvd
Denver, CO 80222

RSVP: Jon Rundquist
jonathan.e.rundquist@jci.com

Cost: \$25 Rocky Mtn Chapter Members
*Reservation must be made by 12:00 pm
January 10, 2011
\$30 Non-members and late reservations
\$20 Students

Fort Collins Meeting

Date: Wednesday, January 12, 2011

Time: 12:30 Registration
Announcements
Program (Ends at 1:30)

Location: Cache Bank
100 S. College Avenue
Fort Collins, CO 80524

RSVP: Mike Fulton
MFulton@westernmechanicalsolutions.com

Cost: \$10 Rocky Mtn Chapter Members

ASHRAE 2010 - 2011 MEETING SCHEDULE

JANUARY 12, 2011

FEBRUARY 2, 2011

MARCH 2, 2011

APRIL 6, 2011

TECH CONF: APR 15,
2011

MAY 4, 2011

JUNE 8, 2011

GOLF: JUNE 20, 2011

CRC: AUGUST 2011

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"Transforming an Older Facility into a High-Performance Building"

Most buildings, new or old, do not perform anywhere near their most efficient potential. HVAC systems deteriorate with time. Find out what to look for relative to improving the efficiency of the HVAC and lighting systems in a building, learn how to do it at minimum cost by taking advantage of incentives and rebates, and learn how to keep it performing at its potential to save your owner operating and utility costs.



Jim Newman is an active member of many ASHRAE technical societies, is a member of the Construction and Design Committee and of the Speakers Bureau of the Engineering Society of Detroit (ESD), and ESD's spokesperson on energy and environmental issues. He is a Fellow of the ESD.

Jim is a trainer for ASHRAE Energy Standard 90.1 and has trained hundreds of architects, engineers, code officials, and contractors on the use of the Standard. He has been active in several ASHRAE TCs, was Vice-chair of the Industrial Air Conditioning TC in the 1970s, chaired many symposia and was responsible for the rewrite of 10 chapters in the Applications Guide and Data Book during that time. He has also been active on TC 5.5, Air-to-Air Energy Recovery, for the past 10 years. He was a member of the committee that developed ASHRAE's Energy Policy Document for 2008 and a Provisional Energy Auditor for the pilot program of the new ASHRAE Building Energy Quotient (bEQ).

PRESIDENT'S MESSAGE

Dear Rocky Mountain ASHRAE:

The New Year will be on us shortly and we look forward to seeing you in January. Remember our meeting is scheduled for the second Wednesday of the month to allow for those who are on extended vacations to come and meet with us. Feel free to give them grief for taking such a long vacation; I am sure they can handle it.

It was great to see such a large turnout out at our annual Past-President's meeting. I was really glad we could get so many Past-Presidents to come out and be recognized. Again, I would like to thank those individuals for their service to our Chapter. Also I would like to thank the University of Colorado for sending two of their distinguished professors, Michael Brandemuehl and John Zhai, to speak about all the great ASHRAE Research Projects be conducted right here in our Chapter. It was encouraging to see that our Research donation dollars go to such a great cause. I look forward to reading about their findings in ASHRAE publications in the future. Thank you again, Michael and John, for coming down to Denver and presenting at our meeting.

A few days after our January meeting the Chapter will be putting on a great training opportunity titled, "Getting Green with Rocky Mountain ASHRAE." There will be a number of high-performance building topics to discuss that we think you will find very informative. Check out the newsletter and our website for more information. We look forward to seeing you all there.

As always if you have questions or concerns please feel free to email, phone, or just grab me during one of our monthly meetings.

Sincerely,



Ken Urbanek, PE, ASHRAE HBDP, LEED AP

Chapter President
Rocky Mountain Chapter of ASHRAE

ROCKY MOUNTAIN ROSTER

Rocky Mountain ASHRAE 2010 - 2011 Board of Governors

Title/Committee Chair	Name	Email	Phone
President	Ken Urbanek	kurbanek@mkkeng.com	303.796.6000
President-elect/Tech Conf.	Adam Bishop	adamb@cfmcompany.com	303.607.4438
Vice President/CTTC Chair	Michelle Swanson	mswanson@rmhgroup.com	303.239.0909
Secretary	Jon Rundquist	jonathan.e.rundquist@jci.com	303.904.7923
Treasurer	Jessie Jones	jjones@rmhgroup.com	303.239.0909
Newsletter Editor	Mike Harrington	mharrington@setpointsystems.com	303.733.2300
Past President	Justin Dunkin	justind@cfmcompany.com	970.493.7293
Director	Kevin Parrot	kevinp@trinity-mechanical.com	303.442.3175
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	Shane Newman	shanenewman@gmail.com	303.421.6655
Student Activities	Craig Wanklyn	craig.wanklyn@me-engineers.com	303.421.6655
Sustainable Engineering	Megan Van Wieren	MeganLVanWieren@Eaton.com	303.974.1230
Government Activities	Celeste Cizik	CelesteLCizik@eaton.com	303.974.1212

SUSTAINABLE ENGINEERING COMMITTEE

If you would like to be a part of the meeting or have questions about the committee, please contact Megan Van Wieren at sustainable@rockymtnashrae.com.

The SEC committee is currently focusing on the following items and/or issues:

- Developing a sustainable project for a deserving non-profit organization in Denver to be presented at the ASHRAE 2013 Summer Conference
- Planning for green building tours
- Collaboration between ASHRAE , AIA, USGBC, and the Governor's Energy Office
- To be added to the Rocky Mountain ASHRAE SEC mailing list please contact Megan at: MeganLVanWieren@Eaton.com
- Save the date January 14, 2011 8am-4pm for the ASHRAE High Performance Building Training Sessions at MKK Consulting Engineers, 7600 E Orchard Rd #250S, Greenwood Village, CO 80111. Space is limited to 60 people so watch for more information on sign up on the chapter website for topics, speakers, and registration.

2013 ANNUAL MEETING SUSTAINABILITY PROJECT

In preparation for the 2013 Annual ASHRAE Society Meeting, the Rocky Mountain chapter is looking for possible projects that the chapter can sponsor 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.

If you or your organization knows of a project which may be a candidate for our 2013 Annual Meeting Sustainability Project, please contact Brian Lynch at 720.472.1037 or BL@westernmechanicalsolutions.com.

GREENING OUR MEETINGS

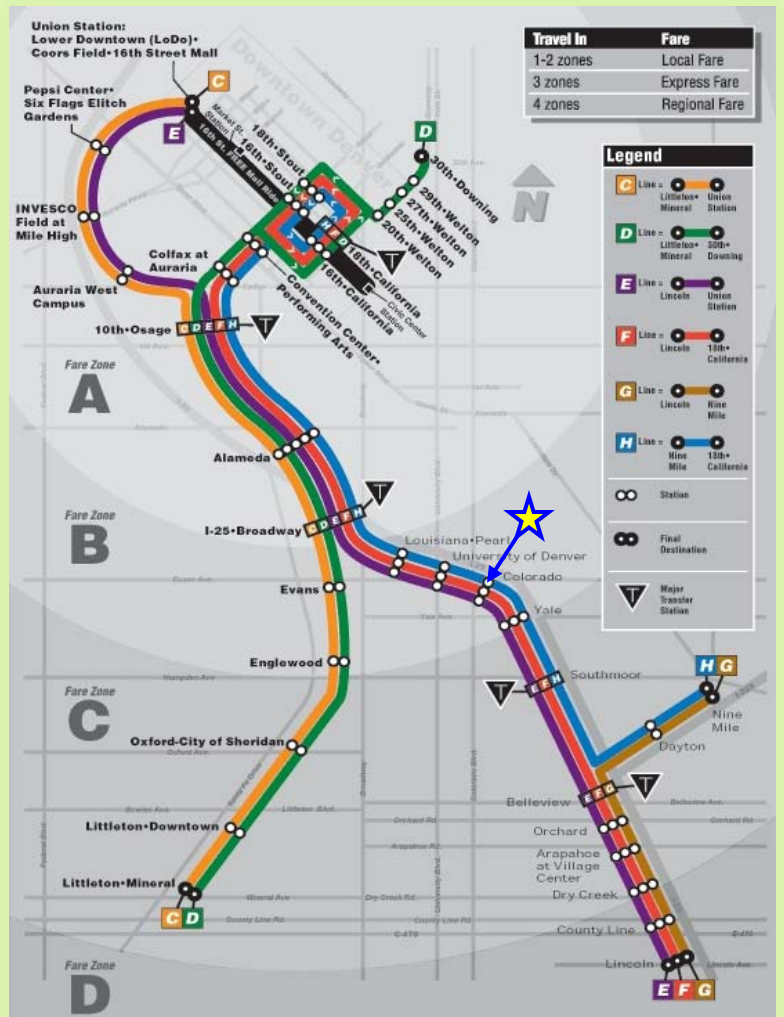
The Rocky Mountain Chapter of ASHRAE will present a free raffle ticket to anyone taking public transportation to the monthly ASHRAE meeting.

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.



MEMBERSHIP PROMOTION

Welcome to the “The Membership Promotion Page.” The chapter's roster has been updated. Please take a close look at the roster located at www.rockymtnashrae.com for the following.

1. If you are a member of ASHRAE (student, associate, member, etc.), your name should be included in the roster.
2. Only the city and state of your primary contact address are included.
3. If no email address appears where your email address should be, ASHRAE does not have an email address for you.
4. Your name appears in the same format as recorded by ASHRAE. If ASHRAE doesn't have your titles or post-nominal letters (e.g., Dr., P.E., Ph.D., etc.), they are not included.
5. Your current member grade is also shown. If you are listed as an Affiliate Member or Associate Member grade and are interested in advancing to Associate Member or Member grade, please update your bio on the www.ashrae.org website. Then send an email to membership@ashrae.org requesting the member grade advancement. I have recently completed this for myself, so I can talk you through it.
6. If any of your information is incorrect or if you want changes made to your information, please login at www.ashrae.org and update your bio by following the link to Manage Membership under the Membership tab. Once you reach the membership page, click on Address Change to take you to your bio.
7. If you have been omitted from this list and want to know why, please let me know and I can investigate. Common reasons for omission include human errors and unpaid ASHRAE membership dues; most typically are easily corrected.

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

ASHRAE RESEARCH



Don't Wait, Please Donate for the 2010-2011 Calendar Year

Mail Check To:
ASHRAE RESEARCH
c/o Adam Bishop, CFM Company
1440 S Lipan St
Denver, CO 80223

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 will
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 Adam Bishop at: 303.607.4438



ROCKY MOUNTAIN CHAPTER

CHAPTER TECHNOLOGY TRANSFER COMMITTEE

If you have any suggestions for meeting topics for the 2010/2011 ASHRAE year, please send your ideas to Michelle Swanson at mwsanson@rmhgroup.com.

Chapter Technology Awards

We are currently seeking entries for our Chapter Technology Award. All current members of ASHRAE may apply. Technology Award applications are accepted in the categories of commercial buildings, institutional buildings, health care, industrial & public facilities, residential buildings, and renewable energy use. Please submit these projects so you can receive your proper recognition.

On the next page you will find a copy of the short form. This is all you need to fill out for both the chapter and regional levels.

Contact Michelle Swanson at mwsanson@rmhgroup.com with entries.



ASHRAE

CHAPTER/REGIONAL TECHNOLOGY AWARD APPLICATION
SHORT FORM

(7/29/08)

INTRODUCTION:

*This Short Form has been developed to stimulate more participation in chapter and regional competition. **This form is not intended to replace the full Society Technology Award Application form.** Regional winners using the short form will be required to complete the full Technology Award Application form before their applications can be forwarded for Society Competition. (This form does not require extensive narrative, plans or photographs.)*

INSTRUCTIONS:

- A. The individual submitting the Technology Award Application must be a current member of ASHRAE who had a significant role in the design or development of the project.
- B. Complete the "Short Form" and use it as the cover page.
- C. Provide a system schematic/diagram not larger than 11" x 17" in size. In addition, attach a brief narrative (maximum of 2 pages). The narrative should include the gross and net building areas applicable to the project, a description of the major building areas (i.e., operating rooms, laboratories, computer rooms, industrial processes, offices, warehouses) and a brief discussion regarding the following five criteria (if a criterion is not applicable, state accordingly):
 - Energy Efficiency
 - Indoor Air Quality
 - Innovation
 - Operation & Maintenance
 - Cost Effectiveness
 - Environmental Impact
- D. Submit your schematic, brief narrative, and completed form to your Chapter Technology Committee Chapter (CTTC) Chair for judging at the chapter level in accordance with their instructions.
- E. Winners in each category from the chapter competition will be submitted by the CTTC Chapter Chair to the Regional CTTC RVC Chair. Submit the appropriate number of copies as requested by your Regional RVC.
- F. It is highly recommended that each entrant confirm by letter (and retain a copy for record) to the owner that the owner has granted permission to submit this project to competition.

NOTE: ASHRAE Technology Awards are the HVAC&R industry's most prestigious honor for efficient energy use in buildings and environmental system performance. While the awards do not certify responsible charge or professional license status, they do recognize outstanding design innovation and successful implementation.

CHAPTER/REGIONAL TECHNOLOGY AWARD - SHORT FORM

1. Category (Check one and indicate New or Existing, if applicable)

- | | | |
|--|---------------------------------|-----------------------------------|
| <input type="checkbox"/> Commercial Buildings | <input type="checkbox"/> New or | <input type="checkbox"/> Existing |
| <input type="checkbox"/> Institutional Buildings | <input type="checkbox"/> New or | <input type="checkbox"/> Existing |
| <input type="checkbox"/> Health Care Facilities | <input type="checkbox"/> New or | <input type="checkbox"/> Existing |
| <input type="checkbox"/> Industrial Facilities or Processes | <input type="checkbox"/> New or | <input type="checkbox"/> Existing |
| <input type="checkbox"/> Public Assembly | | |
| <input type="checkbox"/> Residential | | |
| <input type="checkbox"/> Alternative and/or Renewable Energy Use | | |

2. Name of Building or Project:

City/State:

3. Project Description:

Project Study/Design Period:

Has the project been completed? Yes No

If YES, date completed:

If NO, scheduled date of completion (or other explanation):

4. Entrant (ASHRAE member with significant role in project) If multiple entrants, all must be listed.

a. Name:

Last

First

Middle

Membership Number:

Chapter

Region:

b. Address (including country):

City

State/Province

Zip/Country Code

c. Telephone: Office

d. E-mail address:

e. Company:

f. Member's Role in Project:

g. Member's Signature:

5. Engineer of Record:

By affixing my signature above, I certify that the information contained in this application is accurate to the best of my knowledge. In addition, I certify that I have discussed this entry with the owner and have received permission from the owner to submit this project to the ASHRAE Technology Awards Competition.

ASHRAE SOCIETY NEWS AND PRESS RELEASES

For Release:
Dec. 15, 2010

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

ASHRAE Applauds Signing of Federal Buildings Personnel Training Law of 2010

ATLANTA – Federal legislation signed into law this week will provide training for federal building personnel in the areas of building operations and maintenance, energy management, safety and design functions.

On Tuesday, Dec. 14, President Obama signed the Federal Buildings Personnel Training Act. The Act was introduced in April by Reps. Russ Carnahan (D-Mo.) and Judy Biggert (R-Ill.) and Sen. Tom Carper (D-De.) and Susan Collins (R-Me.). It was supported by more than 33 leading organizations involved in the design, construction, operation and maintenance of buildings, including ASHRAE.

The legislation will help provide federal workers with the necessary training to construct and maintain environmentally sound buildings. Federal workers will be able to be trained in a series of core competencies relating to building operations, maintenance, energy management, and safety and future performance. Workers can take courses and be able to obtain licenses and certification for their efforts.

“This law is a significant advancement for the design, construction, operation and maintenance of our nation’s federal buildings,” Lynn G. Bellenger, ASHRAE president, said. “ASHRAE applauds the federal government for demonstrating what can be accomplished in building and maintaining energy efficient buildings with excellent indoor environmental quality.”

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.

For Release:
Dec. 20, 2010

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

ASHRAE: Standard 189.1 Adopted as Part of Army Sustainability Policy

ATLANTA – ASHRAE leaders recently met with U.S. Army officials regarding a new sustainable design and development policy that incorporates requirements of the green building standard developed by the Society, USGBC and IES.

The U.S. Army has made it a matter of policy to promote sustainability and improve green building standards for its facilities. On Oct. 27, 2010, Katherine Hammack, assistant secretary of the Army for installations, energy and the environment (IE&E), issued a policy memorandum that incorporates ANSI/ASHRAE/USGBC/IES Standard 189.1-2009, *Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings*.

The Army’s policy sets a new approach to the design and construction of efficient military construction projects and major renovations by using Standard 189.1 as the baseline. The policy requires that facility construction projects follow specified requirements and guidance in the standard. These requirements address siting, energy efficiency, cool roofs, metering, storm water management and indoor and outdoor water consumption.

“After nearly four years of peer review and collaboration with various members of industry, we are extremely pleased that the Army has taken up the initiative to incorporate the standard into its day-to-day practices,” Lynn G. Bellenger, ASHRAE president, said. “The Army is clearly committed to taking the lead within the military to incorporate innovative practices proven by the private sector. Their willingness to adopt this standard speaks volumes about its value and efficacy.”

The net effect of the Army’s sustainable design initiative is likely to be immense. The policy applies to all construction and renovation of new buildings and structures in the U.S. territories, permanent overseas Active Army installations, Army Reserve Centers, Army National Guard facilities and Armed Forces Reserve Centers. The footprint of the existing Army buildings and structures worldwide covers more than 954 million square feet.

“We are committed to sustainable design and development but our commitment extends far beyond construction and renovation savings,” Hammack said. “We are on a path to integrating energy and sustainability considerations into our fundamental way of thinking as we progress toward net-zero energy, water and waste in buildings and installations.”

ASHRAE leadership and Army officials discussed how the Society could continue development and stringency of Standard 189.1 to provide guidance toward net-zero buildings. Additionally discussed were how ASHRAE can help fulfill the Army’s training needs regarding the standard and how 189.1 fits in to Army’s long-term plans to make their facilities more sustainable

Standard 189.1, published earlier this year by ASHRAE in conjunction with the Illuminating Engineering Society of North America (IES) and the U.S. Green Building Council (USGBC), provides a long-needed green building foundation for those who strive to design, build and operate green buildings.

Standard 189.1 also serves as jurisdictional compliance option to the International Green Construction Code authored by the International Code Council, ASTM International and the American Institute of Architects.

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 Holds the Sustainability Cards

Join ASHRAE at the 2011 Winter Conference, Jan. 29-Feb. 2, Las Vegas, Nevada



A full-house of professional and personal development activities are offered!

Technical Program—focused on the efficient use of energy, the greening of the industrial base, the real cost of zero-energy design

Virtual Conference—if you can't make it to Las Vegas, don't miss out on the knowledge shared in the technical program with the Virtual Conference

AHR Expo—the ASHRAE co-sponsored AHR Expo takes place Jan. 31-Feb. 2 at the Las Vegas Convention Center. www.ahrexpo.com

ASHRAE Certification—launch of a sixth certification program, targeting building energy assessors. Five existing certification programs also offered

ASHRAE Learning Institute—offers six Professional Development Seminars and 14 Short Courses - includes a new course on building energy modeling and updates to courses covering Standards 62.1 and 90.1

Register before
November 5 and SAVE!

The early bird fee is \$505
(\$685 non-members)



www.ashrae.org/lasvegas

STUDENT ACTIVITIES COMMITTEE

Each year Rocky Mountain ASHRAE works with the local colleges and universities in our area to improve the visibility of ASHRAE at their schools and across their campuses. Schools in our region are:

University of Colorado
Metro State University
Colorado School of Mines
University of Wyoming

University of Denver
University of Colorado – Denver
Colorado State University
University of Northern Colorado

Things that we here in the Rocky Mountain ASHRAE work on with schools are:

- Attend student chapter events and meetings at the school
- Provide assistance to students who are looking for internships and full time jobs
- Schedule project site visits (this is typically a spring event for our chapter)
- Work with students to attend the Winter and Summer Meetings of ASHRAE

YEA (YOUNG ENGINEERS IN ASHRAE)

Tim Hughes has reserved a few pool tables at the Wynkoop Brewery Downtown on the night of Thursday Jan. 20th from 6-8 PM. If you plan on attending please RSVP to **Tim Hughes** tim.j.hughes@siemens.com by Jan. 18th. For directions follow the link <http://www.wynkoop.com/contact>. If you are unfamiliar with ASHRAE YEA, it is the **Young Engineers in ASHRAE (YEA) Committee** which enhances young professional member benefits, 35 years old and younger, by identifying activities and services focused on their needs. Please feel free to invite other members interested in YEA to come join us.

Check out the flyer under Odds and Ends for the YEA DU hockey night coming up soon as well.

EMPLOYMENT LISTINGS 2010-2011

Position(s): Commissioning/Energy Audit Team Leader

Company: Ambient Energy

Location: Denver, Colorado

Contact: Jessica@ambient-e.com

More Info:

Commissioning/Energy Audit Team Leader –

<http://www.rockymtnashrae.com/wp-content/uploads/2010/06/Ambient-Energy.pdf>

ASHRAE Jobs is the Society's Online employment resource

With an exceptionally difficult recruitment market, the ASHRAE Jobs Career Center has been averaging 55 active job postings per month and just over 5,000 monthly job seeking visitors. Recruiters are experiencing, on average, 12 online applications per job posting and have access to just over 1200 resumes that have posted its launch on June 15.

ASHRAE Jobs is not only about the hire. It is the path to a hire. By visiting www.ashraejobs.com, you can search for certain skill sets and demographics that you are "always looking for". It is the place to capture high performers you can use to replace underperformers. This is the place to see if your competitors' people are out searching and interested in you. It is also the place to capture candidates for your Q1 hires because we are only 45 days away.

ASHRAE Jobs understands you do not want to be sold to. But you still have opportunities and problems, and may need a professional to discuss those with. That is what you can expect from ASHRAE Jobs: a no-strings-attached conversation where a representative listens and then makes recommendations whether they include ASHRAE Jobs or not. For more information, visit www.ashraejobs.com, call 888-482-2562 or e-mail John VonHarz at jvonharz@ashraejobs.com. An ASHRAE Jobs representative is available during business hours to discuss your firm's needs and make recommendations on next steps.

ODDS AND ENDS



ASHRAE HOCKEY NIGHT AT DU

That's right! It's time once again for the Annual ASHRAE/DU Hockey Night. This year's event will have the Mighty DU Pioneers battling the Snapperheads from St. Cloud State University on Friday March 4, 2011 at 7:30 p.m. The game will be played at Magness Arena in the Ritchie Center at DU. Tickets for the game will cost \$23 (they stopped offering children's price tickets). As always, door prizes will be given out at the intermissions. So please come and join us for another fun filled night of DU Hockey.

Name: _____

Company: _____

Address: _____

Tickets: _____ X \$23 = _____

Total = _____

Pay On-line at <http://www.rockymtnashrae.com>

OR make checks payable to Rocky Mountain Chapter ASHRAE and send to:

Mike Day
C/O M-E Engineers, Inc.
10055 W. 43rd Ave
Wheat Ridge, CO 80033
Ph. 303-421-6655, Fx. 303-421-0331
mike.day@me-engineers.com



NEW!! Workshops Announced - AIA+2030™ Professional Series Prepare for the New Energy Future™

In January 2011, AIA Denver will launch the AIA+2030 Professional Series, which is designed to help professionals create buildings that meet the ambitious energy efficiency goals of the Architecture 2030 Challenge®. Ten, four-hour sessions offer strategies to reach 60-100% reduction in fossil fuel greenhouse gas emissions, giving design professionals the knowledge and leverage to create next-generation, super-efficient buildings-and providing firms with the skills that will set them apart in the marketplace. The series is co-sponsored by the Governor's Energy Office.

ALL SESSIONS: 8:30 a.m. - 12:30 p.m. · 4LU/4HSW/4SD credits per session
Series moderated by Paul Hutton, AIA, Hutton Architecture Studio (Denver)

REGISTRATION: Online at www.aiadenver2030.org

PRICING: 10 Session Package: \$650 AIA members, \$400 Assoc. AIA members, \$975 nonmembers*

*Courses are limited to 60 participants and preference will be given to members.

CLASSES:

- | Jan. 14 | The 2030 Challenge®: Setting + Achieving Energy Goals with Integrated Design™
- | Feb. 11 | Getting to 60: The Power of Targets + Load Reductions™
- | March 11 | Accentuate the Positive: Climate Responsive Design™
- | April 8 | Skins: The Importance of the Thermal Envelope™
- | June 10 | Passively Aggressive: Employing Passive Systems for Load Reduction™
- | July 8 | Illuminating Savings: Daylighting and Integrated Lighting Strategies™
- | Aug. 12 | Right-Sized: Equipment and Controls for Super-Efficient Building Systems™
- | Sept. 9 | Site Power: Renewable Energy Opportunities™
- | Oct. 21 | The Hand-Off + Staying in Shape: Operations, Maintenance + Education™
- | Nov. 11 | Putting it All Together: Achieving 2030 Goals on the Project + at the Office™

New Archives Now Available

New presentations are available for the following webinars and workshops:

- [Commissioning, Measurement and Verification](#)
- [GEO High Performance Building 101 and 201 Steamboat Springs - Workshop](#)
- [Building Performance Modeling 201](#)
- [Making the Grade: CO-CHPS and LEED for Schools](#)
- [Building Envelopes in Colorado](#)

For all High Performance Building presentation PDFs, visit the [Workshops & Webinar](#) page.
To view the video archives please visit the [Video](#) page.



ASHRAE Members:

Have you updated your SMACNA Manuals lately?

These important manuals are now available at discounted prices.

HVAC Duct Construction Standards, Metal & Flexible, 3rd Ed., 2005

*Provides multiple options for resource efficiency
Discounted price \$95.00*

IAQ Guidelines for Occupied Buildings Under Construction, 2nd Ed., 2007

*Includes required information for LEED compliance
Discounted Price \$60.00*

HVAC Systems Duct Design, 4th Ed., 2006

*A fundamental duct system design manual structured to offer options in energy-efficient design methods
Discounted Price \$90.00*

Fire, Smoke and Radiation Damper Installation Guide for HVAC Systems, 5th Ed., 2002

*To be used in conjunction with smoke removal, fire protection and other life safety systems
Discounted Price \$48.00*

Now is the time to get your library up to date! Contact our office for complete detailed information on all SMACNA manuals and to order copies for immediate shipment. Discounted pricing is available for ASHRAE members.