

Denver Meeting Information

DATE: Wednesday, April 3, 2013
TIME: 11:30 am – Registration and Lunch Buffet
 11:45 am – Announcements
 12:00 pm – Program Begins
LOCATION: Dave & Busters
 2000 South Colorado Blvd
 Denver, CO 80222
RSVP: www.RockyMTNASHRAE.COM
COST: \$25 Rocky Mtn Chapter Members
 *Reservation made by 5:00 PM on Monday
\$35 Non-members and late reservations
 \$20 Students

“Listed Grease Ductwork and System Effect”

Benefits of using listed grease duct work in minimizing system effect. This could also extend to benefit of designing/ specifying duct layout to ensure complete system design and duct design to minimize elbows/ reduce grease accumulation/ reduce fire hazard and decrease static pressure (minimize system effect). Proper design of kitchen ventilation system as a system instead of parts/ pieces.

Molly Rice is a native of Colorado and has been with Captive-Aire Systems for 9 years. She graduated from Adams State College with degrees in Biology and Chemistry and entered the world of kitchen ventilation after working for several years as an Analytical Chemist in Raleigh, North Carolina. While at Captive-Aire, Molly has worked at the corporate level as an Applications Engineer, Director of Operations and Vice President of Sales for North America and currently serves as the Regional Sales Manager for Colorado and Southern Wyoming. Her current position allows her to live in the state she loves and for her children, 2 years and 5 years, to be near family.

This presentation has been registered for 1.0 GBCI Credits

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Upcoming Events:

- September 26th YEA Kickoff Even at Prost Brewery
(YEA events are open to all Members regardless of age group)
- October 2nd Technical Meeting-Denver Lunch.
- October 11th will be the annual Chapter Brewery Tour.
Locations to be determined but always a good time.
- November 6th Technical Meeting-Denver Dinner and Fort Collins Lunch
- December 4th
February-ish-DU Hockey Night.
- May 2nd, 2014 Technical Conference.

PRESIDENT'S MESSAGE

PRESIDENT'S MESSAGE

Dear Rocky Mountain ASHRAE:

First I would like to thank Randy Zimmerman with Titus for speaking at both our lunch and dinner meetings. It was a great way to start out the new 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.

RM ASHRAE is a USGBC/GBCI education provider!

The Rocky Mountain Chapter of ASHRAE is now a USGBC/GBCI education provider. If you would like to have a presentation submitted to the USGBC for LEED AP credentialing credits, please contact Jessie Jones jjones@rmhgroup.com or Michelle Swanson mswanson@rmhgroup.com for more information.

Our speaker for October will be Molly Rice with Captive Aire. She will be presenting on Kitchen Ventilation System Design. This will be just a lunch meeting in Denver. I hope you can attend.

There are a couple of events coming up I would like to mention. The first YEA meeting will be held at Prost Brewery Thursday, September 26. The main focus of the meeting is to discuss event ideas for the upcoming year. We will be holding our annual Brewery Tour on October 11. Please let Jessie Jones know if you plan to attend. You can pay for the Tour on our website. Also, a little further out is our annual Technical Conference. This will be held on May 2. If you are interested in helping out with the conference, please speak to any of the board members. Also if you would like to speak at or have topic ideas, please let us know right away as those items will be finalized in the next couple months.

Regarding ASHRAE Research, I want to let you know that the Rocky Mountain Chapter is yet again showing our support for ASHRAE Research by our board of governors making personal contributions and helping the chapter receive the honor of a Full Circle donation. Any member can donate to ASHRAE Research and we encourage you to do so, please visit www.ashrae.org/contribute to make a donation. Once again, our goal will be to maintain the top chapter in the country for raising money for research.

Lastly I would like to mention our social media sites. In an attempt to get out information to our membership as many ways as possible, we will be using LinkedIn, Facebook and Twitter. Along with sending out meeting information, we will also be posting pictures from ASHRAE events. I hope you will take a minute to join one or all of these platforms. The easiest way to do so is to go to our website and click on the icons on the left side of the page.

If you have any questions or concerns, please do not hesitate to contact me.

Best Regards,

Jon Rundquist

Chapter President
Rocky Mountain Chapter of ASHRAE

ROCKY MOUNTAIN ROSTER

Rocky Mountain ASHRAE 2013 - 2014 Board of Governors

Title/Committee Chair	Name	Email	Phone
President	Jon Rundquist	President@RockyMtnASHRAE.com	303.428.2800
President-elect/Tech Conf.	Jessie Jones	TechConference@RockyMtnASHRAE.com	303.239.0909
Vice President/CTTC Chair	Mike Harrington	CTTC@RockyMtnASHRAE.com	720.221.1078
Secretary	Megan Sterl	Secretary@RockyMtnASHRAE.com	303.974.1230
Treasurer	Tony Anderson	Treasurer@RockyMtnASHRAE.com	303.280.1401
Newsletter Editor	Trevor Bromberg	Newsletter@RockyMtnASHRAE.com	303.969.0220
Past President	Michelle Swanson	PastPresident@RockyMtnASHRAE.com	303.239.0909
Director	Mike Day	Director1@RockyMtnASHRAE.com	303.421.6655
Director	Jody Templeton	Director2@RockyMtnASHRAE.com	303.295.6111
Northern Section Chair	Mike Fulton	NorthernSection@RockyMtnASHRAE.com	720.934.8273
Membership	Chris Garofoli	Membership@RockyMtnASHRAE.com	303.396.9006
Website	Scott Jones	Webmaster@RockyMtnASHRAE.com	303.428.2800
Student Activities	Craig Wanklyn	Student@RockyMtnASHRAE.com	303.421.6655
Sustainable Engineering	Sara Frame	Sustainable@RockyMtnASHRAE.com	303.328.3436
Government Activities	Steve Ferguson	Government@RockyMtnASHRAE.com	303.428.2800
Historian	Ainsley Thrailkill	Historian@RockyMtnASHRAE.com	303.796.6074
Honors & Awards	Eugene Mitchell	Awards@RockyMtnASHRAE.com	303.322.0165
Social Media	Andrew Van Essen	SocialMedia@RockyMtnASHRAE.com	303.257.2642
YEA Chair	James Newman	YEA@RockyMtnASHRAE.com	303.421.6655

ASHRAE RESEARCH



Don't Wait, Please Donate for the 2013-2014 ASHRAE Year

Mail Check To:
ASHRAE RESEARCH
c/o Jessie Jones, The RMH Group
12600 W Colfax Ave, Suite 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	Other: _____
CORPORATE	\$75.00	\$100.00	\$175.00	\$250.00	Other: _____

Or Contact Jessie Jones at: 303-312-4641


































THANK YOU Donors!

- John Freeman
- Michael Haughey
- Jessie Jones
- Mark Labac
- Engineered Products Company – Denver
- Roger Abrahamson
- Karl Selby
- Scott Martin
- Michelle Swanson
- David Willets



Our goal for this year is to raise \$83,100

ASHRAE RESEARCH DONOR LEVELS AND RECOGNITION

Receives 1 day Meeting Registration*							-----		
Receives 2 tickets to Members Night Out and Welcome Party*									
Presented 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 & Plaque							-----		
Receives Silver ASHRAE Commemorative Coin & Plaque					-----	-----	-----	-----	
Receives Bronze ASHRAE Commemorative Coin & Plaque				-----	-----	-----	-----	-----	
Receives Antique ASHRAE Commemorative Coin & Plaque			-----	-----	-----	-----	-----	-----	
Receives blue desktop coin holder		-----	-----	-----	-----	-----	-----	-----	
Listed in annual <i>Investor Honor Roll</i>									
	Honor Roll Donor** \$150-\$249	Major Donor – Antique \$250-\$499	Major Donor – Bronze \$500-\$999	Major Donor – Silver \$1000-\$2499	ASHRAE Associate \$2500-\$4999	ASHRAE Partner \$5000-\$9999	Golden Circle Donor \$10,000 - \$19,999	Platinum Circle Donor \$20,000+	

* ASHRAE Winter Meeting

** Individual Honor Roll Donor begins at \$100

SUSTAINABLE ENGINEERING COMMITTEE

Upcoming Meeting

DATE: Wednesday September 25th

TIME: 12PM – 1PM

LOCATION: Eaton Energy Solutions
143 Union Blvd. Suite 350
Lakewood, CO 80228

RSVP: Sara Frame
sustainable@rockymtnashrae.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 Sara Frame at sustainable@rockymtnashrae.com.

This month's meeting will focus on planning events for this year.



ASHRAE Rocky Mountain Chapter



Rocky Mountain ASHRAE



@ASHRAERkyMtn

GREENING OUR MEETINGS

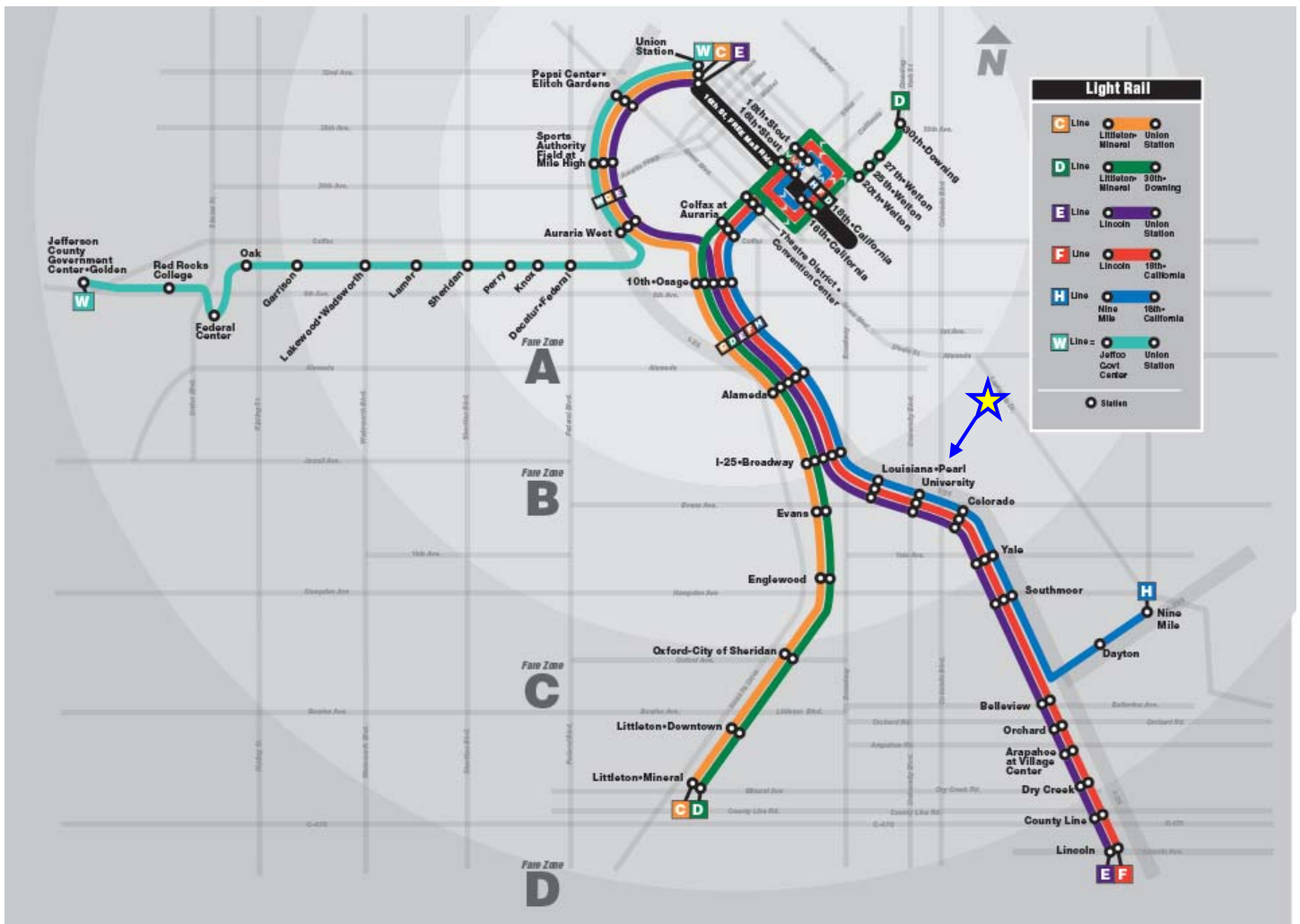
The Rocky Mountain Chapter of ASHRAE will present a free raffle ticket to anyone taking public transportation to the monthly ASHRAE meeting.

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.



YOUNG ENGINEERS IN ASHRAE (YEA) & STUDENTS

Young Engineers in ASHRAE (YEA) events are open to all ASHRAE Members, you do not have to be younger than 35 to attend.

Please see the flyer on the next page for information on the Prost Brewery Tour. There will also be a planning meeting after the tour to discuss ideas for future YEA meetings including:

- FE/PE Study Groups
- FE/PE Study Material Library
- Site Tours
- Annual Kickball Event
- Mentoring Program
- Educational Series
- YEA Shadowing Opportunities

Contact YEA Committee Chairman James Newman at YEA@RockyMtnASHRAE.com for more information.

YEA Members The LeADRS program gives regional leaders the opportunity to shadow their DRC at a Society Winter or Annual conference. This program will allow the incoming or new regional leader to gain a better understanding of both regional and Society operations. The region will cover the transportation costs, room, meeting registration, Welcome Party, Presidential Luncheon, Member Nights out, and our Regional Dinner while attending the conference. The shadow will arrive on the Friday before the conference, and leave on the Wednesday morning at the end of the conference.

Are you a YEA member that would like to attend the ASHRAE winter conference in New York City? The Rocky Mtn. ASHRAE chapter will sponsor one YEA member to attend the ASHRAE 2014 winter conference. The chapter will reimburse up to \$1000 in expenses for the selected individual. If you are interested in applying or have any questions for the ASHRAE 2014 winter conference scholarship please contact yea@RockyMtnASHRAE.com by Oct 11th.

Student Members four scholarships in an amount up to \$1,000 each are to be awarded locally by the Rocky Mountain Chapter. 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 awards will occur at the Rocky Mountain ASHRAE Student Night November 6, 2013. Please see the 2013 Student Scholarships application form on page 12.

Industry History:

In 1903, the first U.S. steam-turbine of large capacity for commercial service was placed in service at the Fiske Street station of the Commonwealth Edison Co., Chicago, Illinois. It was built by General Electric Co in Schenectady, N.Y., and had been factory-tested on 4 Mar 1903. Compared to the reciprocating engine it replaced, the turbine needed only one-third of its floor space, had only one-eighth of its weight, and cost only one-third as much. The turbine developed 6,500 h.p. operating with steam at a pressure of 175 lbs/sq.in. and a temperature of 375 deg. F.

2013-2014 Rocky Mountain ASHRAE YEA Kickoff



When: Thursday, Sept 26th at 5:00 p.m.

Where: **Prost Brewing Company**
2540 19th St
Denver, CO 80211

The Rocky Mountain ASHRAE YEA committee is hosting its 2013-2014 kickoff event at Prost Brewing Company. The event will begin with a guided tour of the brewery which has been assembled with equipment that was purchased and shipped from an original brewery located in Germany. After the tour, we will have a short meeting/forum to discuss potential events and program ideas for the upcoming year. A few potential events and programs that will be discussed are listed below. Following the tour and meeting, everyone is invited to hang out for a bit to socialize and network with others in attendance.

Ideas for potential events and programs: FE/PE Study Groups & Material Library, Site Tours, Annual Kickball Event, Mentoring Program, Educational Series, YEA Shadowing Program Opportunities

Please RSVP by Sept 24th to YEA@RockyMtnASHRAE.com to reserve a spot on the tour. Please email with any questions in regards to the event.

Anyone interested in sponsoring part of or all of the event please contact James Newman.

Please detail your regional level involvement and any currently held positions: _____

Please detail your Society level involvement: _____

How many society meetings have you attended? Annual: _____ **Winter:** _____

Why are you interested in getting involved with LeADRS? _____

If you have any questions or need clarification regarding the Leadership U program or the application, please contact the Region IX YRC Jacob Kopocis at jkopocis@controlservices.com or (402) 339-4344.



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 6, 2013

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 and involvement in ASHRAE

Interested students should submit materials via mail to the address below or electronically to the email address below by Wednesday, October 30, 2013 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!

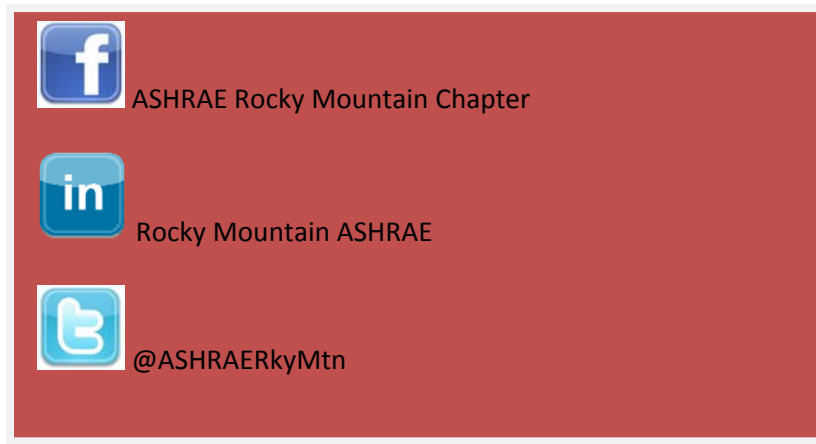
MEMBERSHIP PROMOTION

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

- Miss Erika Leininger
- Mr Michael Hanson
- Mr Andrew Dionne
- Miss Ainsley Thrailkill
- Mr Jacob Goodman

If you have questions or need membership assistance please send an email to Membership@RockyMtnASHRAE.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.





MEMBERSHIP APPLICATION

Name: _____

New Member Renewal National Member ID _____
*National membership is required to join chapter.

Address: _____

Email: _____

Name Tag: _____ (\$10) Yes
**Name as it is to appear on the tag.

I would like to be contacted about participating in the following events.

Mentor	Trade Show	Meeting Volunteer	Sustainability Project
Meeting Presenter	Raffle item for meeting	Committee Participation	

Please make check payable to **Rocky Mountain Chapter ASHRAE**.

Annual Membership	\$50
Name Tag	\$10
Total	_____

Please mail to:

Chris Garofoli

3416 Alcott St Denver, CO 80211

membership@rockymtnashrae.com

ROCKY MOUNTAIN ASHRAE HISTORY

In April 1976, the Rocky Mountain chapter announced the publication of “Climate Data for Air Conditioning Design” for “Colorado – Wyoming – Montana and Environs.” This publication consisted of:

- Design temperatures tables for Colorado (60 Stations), Wyoming (27 Stations), Montana (23 Stations) and Other (10 Stations)
- Normals, Means, Extremes Tables for Colorado (5 Stations), Wyoming (4 Stations) and Montana (8 Stations)
- Denver Heat Island Map
- Typical Diurnal Curves for Rocky Mountain Area
- Hours vs. Temperature Occurrence Tables for Colorado (5 Stations), Wyoming (5 Stations), and Montana (5 Stations)
- Boulder County Wind Pressure Map
- Altitude Correction Table

The publication was sold for \$7.50 each (inclu. postage) with proceeds going to the ASHRAE Research Fund. In December 1977 the publications was offered in packets of ten copies for \$50.00 (postage was not mentioned). The publication was directed by expert on climate and weather data Loren Crow, P.E., Consulting Meteorologist and spearheaded by Climate Data Committee Chairman Bob Sidwell.

In May 1978, it was announced that “Members of the chapter are presently compiling weather data for the 97 ½% and 2 ½% levels to supplement the present data listed for the 0.2% and 0.6% winter levels and the 0.1%, 0/5% and 2.0% summer levels.”

In December 1981, it was announced that “The Rocky Mountain Chapter has made available to the industry for the past six year, ‘The Climate Data Books for Air Conditioning Design, Rocky Mountain Region’, however, we are now closing out this function.” The clearance price for remaining Climate Data books was \$5.00 each or a packet of 10 for \$45.00.

In April 1991, a call went out for volunteers to update the publication. The goal was to publish the updated version in time for the Denver Society Meeting in June of 1993. According the newsletter records, the updated publication did not sell well.

Many consulting engineers had, and in some cases still have, copies of these publications on their desks.



ASHRAE SOCIETY NEWS AND PRESS RELEASES

ASHRAE Seeks Presenters, Posters for HPB 2014 Conference

ATLANTA – Presenters and posters are being sought for ASHRAE’s High Performance Buildings Conference will take place April 7-8, 2014, Hyatt Fisherman’s Wharf, San Francisco, Calif.

Abstracts for presentations are due Oct. 25, 2013, while poster PDFs are due Feb. 21, 2014. Additional information can be found at www.hpbmagazine.org/hpb2014.

The Conference program will have a mix of invited speakers and a call for presenters. In addition, there will be a poster session on “Measured Building Performance” and “Modeled Building Performance.”

“We would like to see a balance of presentations showing innovation, proven methods for improving building operation resulting in deep energy efficiency and indoor environmental quality, measured performance and HPB case studies demonstrating new technologies,” Kent Peterson, conference chair, said. “We are seeking posters of designed or built buildings that balance high performance building attributes of energy efficiency, water savings and indoor environmental quality.”

Building upon the 2012 High Performance Buildings Conference and 2009 Net-Zero Energy Conference, the conference seeks to advance the industry’s efforts to accomplish a true high-performance built environment.

The conference topics provide a comprehensive overview of high performance building design with a focus on strategies in several areas, Peterson said. New subject areas include water efficiency, building occupant behavior, new building technologies and indoor environmental quality. In addition, there is increased emphasis on lighting/daylighting and the building envelope.

Presentations and Posters are being sought for the following tracks:

- Building Envelope
- Building Occupant Behavior
- Building Performance Modeling
- Building Performance Measurement
- Case Studies and Lesson Learned
- Daylighting
- Indoor Environmental Quality Strategies
- Low Energy Techniques
- Market Value (Return on Investment)
- New Building Technologies
- Operating for High Performance
- Plug Load Reduction Strategies
- Policy/Benchmarking
- Water Efficiency Strategies

The conference is being presented by ASHRAE’s High Performing Buildings magazine, the industry’s premier source for measured performance of practices and technologies to promote better buildings.

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow’s built environment today. More information can be found at www.ashrae.org/news.

ASHRAE SOCIETY NEWS AND PRESS RELEASES (CONT.)

SAVE THE DATE

April 17, 2014

1:00pm - 4:00 pm EDT

FREE ASHRAE WEBCAST

Buildings in Balance: IEQ and Energy Efficiency

This **FREE** webcast will feature industry experts who will identify the link between energy efficiency and Indoor Environmental Quality (IEQ) through the integrated design process. Viewers will be able to recognize the importance of the four cornerstones of IEQ and how system selection can benefit both energy efficiency and IEQ.

Visit www.ashrae.org/IEQWebcast for additional information about the program, sponsorships, continuing education credits, speakers, and registration.



EMPLOYMENT OPPORTUNITIES

Go to our website to open these links <http://rockymtnashrae.com/classifieds.php>

Job Title	Company	Date Posted
Mechanical Engineer II	Beaudin Ganze Consulting Engineers, Inc.	April 29, 2013
Building Performance Engineer, Level 1 or 2, Denver Office	Ambient Energy	June 03, 2013
Commissioning Agent	Group14 Engineering	July 15, 2013
Building Energy Modeler	YRG	August 22, 2013
Application Engineer	Setpoint Systems Corporation	August 30, 2013
Mechanical HVAC/Plumbing Designer	JCAA Consulting Engineers, LLC	September 16, 2013

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](#).

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 jvonarz@ashraejobs.com) will be please to answer them.

