

**Denver Meeting Information**

**DATE:** Wednesday, September 10<sup>th</sup>, 2014  
**TIME:** 5:30 PM – Registration  
 6:30 PM – Dinner  
 7:00 pm – Program Begins  
**LOCATION:** Dave & Busters  
 2000 South Colorado Blvd  
 Denver, CO 80222  
**RSVP:** [www.RockyMTNASHRAE.COM](http://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

**Fort Collins Meeting Information**

**DATE:** Wednesday, September 10<sup>th</sup>, 2014  
**TIME:** 12:30 Registration/Program Begins  
**NEW LOCATION:** 200 Matthews St. Fort Collins  
 (Use back door)  
**RSVP:** Mike Fulton  
[mfulton@westernmechanicalsolutions.com](mailto:mfulton@westernmechanicalsolutions.com)  
**COST:** \$15 Rocky Mtn Chapter Members

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**ROCKY MOUNTAIN CHAPTER LOGO POLO ORDER FORM**

**“Building Information Modeling in the Construction Process”**

Building Information Modeling (BIM) continues to be an important part of the rapidly changing world of MEP virtual design and construction. This presentation will go beyond the basics of Building Information Modeling to explore current issues and advances within the mechanical piping construction process. Case studies and real-world examples will highlight the pitfalls and challenges of coordination and contract documents. It will also cover the expectations on Building Information Modeling coordination time and simple practices that engineers can focus on to reduce redundant modeling.

Jeff Leighton is the BIM Manager within the Construction Piping Services department at Victaulic. In this position, Jeff manages BIM team leaders on a variety of projects within schools, government, healthcare, arenas, stadiums, industrial and data centers. He is also responsible for driving improvements in Lean BIM processes, standards and project metrics to maintain and increase efficiency across the department and for the company’s customers. Jeff is a member of the Associated General Contractors of America (AGC) and the NBIMS-BIM Standard Sub Committee. He holds an AGC Certificate of Management-Building Information Modeling (CM-BIM), Villanova- Project Management Certification and an Associate’s degree in Mechanical Technology from Lincoln Technical Institute.

**This presentation has been registered for 1.0 GBCI Credits**

**Upcoming Events:**

- September 15<sup>th</sup> – Pikes Peak Chapter Golf Tournament
- September 16<sup>th</sup> & 17<sup>th</sup> – AIHA/RMS Fall Tech Conf.
- October 10<sup>th</sup> – Sustainable Engineering Seminar
- October 17<sup>th</sup> – 2014 Brewery Tour

# PRESIDENT'S MESSAGE

Rocky Mountain ASHRAE Patrons,

Welcome back for another exciting year of ASHRAE in the Rocky Mountains! The 2014-2015 ASHRAE year is going to kick off with our first set of meetings on Wednesday, September 10. Jeff Leighton is going to present on "Building Information Modeling (BIM) in the Construction Process", so you won't want to miss it! You can register to attend either the Fort Collins lunch presentation OR the Denver dinner presentation on the [www.rockymtnashrae.com](http://www.rockymtnashrae.com) website

## **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](mailto:jjones@rmhgroup.com) or Michelle Swanson [mswanson@rmhgroup.com](mailto:mswanson@rmhgroup.com) for more information.

I would like to take a minute to congratulate the Rocky Mountain Chapter for an excellent 2013-2014 year under Jon Rundquist's leadership. Our chapter walked away with quite a few Regional Awards at this year's Region IX Chapter Regional Conference. Here is a list of the awards our chapter received:

- Chapter Service Award – Michelle Swanson
- Region IX 2<sup>nd</sup> Place PAOE Points – Jon Rundquist (Past President)
- Region IX Red Ribbon Award for Membership – Chris Garofoli (Outgoing Membership Chair)
- Regional IX 1<sup>st</sup> Place Technology Award for New Industrial Facilities Category – NCAR Wyoming Supercomputing Center – Terry Autry, The RMH Group, Inc.
- Region IX Top Dog Award for Research Promotion- Jessie Jones Fleming (President)
- Region IX Top Chapter President Award – Jon Rundquist (Past President)
- Region IX Man-Mile Award – Rocky Mtn Chapter

In addition to our monthly meetings this year, we are hosting quite a few social events that you won't want to miss. The 6<sup>th</sup> Annual Brewery Tour will be held on October 17, so make sure to reserve a spot today! Space is limited and the event will fill up fast.

I am looking forward to spending another great year with all of you! If you have any recommendations, comments, and/or suggestions, please don't hesitate to let me know your thoughts on how to improve our chapter. We are always looking for enthusiastic volunteers to add diversity to our Board of Governors, so if you are interested in working on a committee be sure to let me know. We are currently in need of additional committee members for Student Activities and Membership Promotion.

Thank you and I look forward to seeing all of you on September 10!

Jessie Jones Fleming

Rocky Mountain Chapter of ASHRAE  
Chapter President



ASHRAE Rocky Mountain Chapter



Rocky Mountain ASHRAE



@ASHRAERkyMtn

# ROCKY MOUNTAIN BOARD OF GOVERNORS ROSTER

## Rocky Mountain Chapter 2014 - 2015

Title/Committee Chair	Name	Email	Phone
President	Jessie Jones Fleming	<a href="mailto:president@RockyMtnASHRAE.com">president@RockyMtnASHRAE.com</a>	303.239.0909
President-elect/Tech Conf.	Mike Harrington	<a href="mailto:TechConference@RockyMtnASHRAE.com">TechConference@RockyMtnASHRAE.com</a>	720.221.1078
Vice President/CTTC Chair	Megan Sterl	<a href="mailto:CTTC@RockyMtnASHRAE.com">CTTC@RockyMtnASHRAE.com</a>	303.974.1230
Secretary	Tony Anderson	<a href="mailto:Secretary@RockyMtnASHRAE.com">Secretary@RockyMtnASHRAE.com</a>	303.280.1401
Treasurer	Trevor Bromberg	<a href="mailto:Treasurer@RockyMtnASHRAE.com">Treasurer@RockyMtnASHRAE.com</a>	303.969.0220
Newsletter Editor	Eugene Mitchell	<a href="mailto:Newsletter@RockyMtnASHRAE.com">Newsletter@RockyMtnASHRAE.com</a>	303.322.0165
Past President	Jon Rundquist	<a href="mailto:PastPresident@RockyMtnASHRAE.com">PastPresident@RockyMtnASHRAE.com</a>	303.428.2800
Director	Larry Gelin	<a href="mailto:Director1@RockyMtnASHRAE.com">Director1@RockyMtnASHRAE.com</a>	303.761.2291
Director	Jody Templeton	<a href="mailto:Director2@RockyMtnASHRAE.com">Director2@RockyMtnASHRAE.com</a>	303.295.6111
Northern Section Chair	Mike Fulton	<a href="mailto:NorthernSection@RockyMtnASHRAE.com">NorthernSection@RockyMtnASHRAE.com</a>	720.934.8273
Membership	Laura Dyas	<a href="mailto:Membership@RockyMtnASHRAE.com">Membership@RockyMtnASHRAE.com</a>	720.221.1078
Website	Scott Jones	<a href="mailto:Webmaster@RockyMtnASHRAE.com">Webmaster@RockyMtnASHRAE.com</a>	303.428.2800
Student Activities	Ainsley Thraikill	<a href="mailto:Student@RockyMtnASHRAE.com">Student@RockyMtnASHRAE.com</a>	307.766.2033
Sustainable Engineering	Sara Frame	<a href="mailto:Sustainable@RockyMtnASHRAE.com">Sustainable@RockyMtnASHRAE.com</a>	303.951.0650
Government Activities	Steve Ferguson	<a href="mailto:Government@RockyMtnASHRAE.com">Government@RockyMtnASHRAE.com</a>	303.428.2800
Historian	Ainsley Thraikill Jon Rundquist	<a href="mailto:Historian@RockyMtnASHRAE.com">Historian@RockyMtnASHRAE.com</a>	307.766.2033 303.428.2800
Honors & Awards	Eugene Mitchell	<a href="mailto:Awards@RockyMtnASHRAE.com">Awards@RockyMtnASHRAE.com</a>	303.322.0165
Social Media	Andrew Van Essen	<a href="mailto:SocialMedia@RockyMtnASHRAE.com">SocialMedia@RockyMtnASHRAE.com</a>	303.257.2642
YEA Chairs	Bryce Buchanan Rachel Romero	<a href="mailto:YEA@RockyMtnASHRAE.com">YEA@RockyMtnASHRAE.com</a>	719-330-7971 303-886-8254

# ASHRAE RESEARCH



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

Mail Check To:  
**ASHRAE RESEARCH**  
c/o Mike Harrington, Beabout Brock Easley  
621 Southpark Drive, Suite 300  
Littleton, CO 80120

**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 Mike Harrington at: 303-795-1000*

## THANK YOU Donors!

- Ginger M Schaaf
- John P Morris
- Michael D Haughey
- Michael K Fulton
- Mark E Labac
- Michelle L Swanson
- Scott A Martin
- Ken A Urbanek

**Our goal for this year is to raise over \$90,000**

# ASHRAE RESEARCH DONOR LEVELS AND RECOGNITION

Receives 1 day Meeting Registration*							-----	
Receives 2 tickets to <i>Members Night Out</i> and <i>Welcome Party</i> *								
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

## September Committee Meeting

**DATE:** TBD - if you are interested in participating, please contact Sara Frame

**TIME:** 4:30 - 6:00 pm

**LOCATION:** Happy Hour, Location TBD

**RSVP:** Sara Frame, 303-951-0650  
[sustainable@rockymtnashrae.com](mailto:sustainable@rockymtnashrae.com)  
303-951-0650

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](mailto:sustainable@rockymtnashrae.com).



**SAVE THE DATE!**  
**October 10, 2014**

## SUSTAINABLE ENGINEERING SEMINAR

KEY NOTE SPEAKER:

**TERRY E. TOWNSEND, P.E., '06-'07 ASHRAE PRESIDENT**

The Sustainable Engineering Committee is planning a day-long seminar focused on the challenging topics and issues related to sustainable design and project delivery. The seminar will take place on Friday, October 10, 2014.

Terry E. Townsend, P.E. of Townsend Engineering, Inc. will be the keynote speaker. Terry served as 2006-2007 ASHRAE Society President, focusing on the ASHRAE Promise: A Sustainable Future. His achievements as president include launching ASHRAE's first ever certification program, accelerating and expanding the Advanced Energy Design Guide series, setting more stringent savings for ASHRAE's energy standard, and proving resources on how ASHRAE can minimize the environmental impact of ASHRAE meetings.

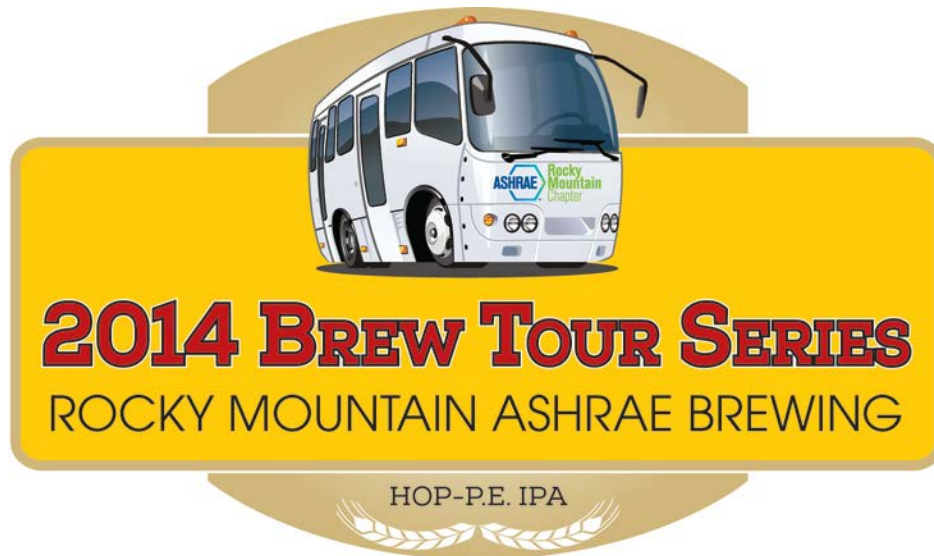
In addition, Tim Wentz, Associate Professor at University of Nebraska, Lincoln will also be speaking. Tim Wentz has been elected as ASHRAE Society's treasure in 2014-2015 and will automatically become president-elect in 2015-2016 and assume the ASHRAE presidency in 2016-2017. Tim is an award-winning instructor and lecturer.

The day will include a morning session of several speakers, a keynote luncheon, and several afternoon speakers. The cost to attend will be \$100. The cost for students will be \$25. Lunch and a light breakfast will be served.

# 2014 ANNUAL ASHRAE BREWERY TOUR

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OCTOBER 17<sup>TH</sup>, 2014



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## \$70 per person, Register Now!

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

**In addition to Registration Fee, Beer Koozie's and Soft Sided 6 Pack Coolers  
Featuring above Logo available at time of Registration!**

**STATION 26 | CROOKED STAVE | SANDLOT | EPIC**

The tour format will be similar to the past: Meet for some breakfast and morning cocktails at **Pepsi Center** parking lots at **8:45 am**, tour some breweries, and then two options to head home at 4:45 and 6:00 pm.

RSVP to Eugene Mitchell by [Wednesday, October 1<sup>ST</sup>](#)

**Eugene Mitchell**

McNevin Company

Direct: (303) 378-7251

E-Mail: [emitchell@mcnevinco.com](mailto:emitchell@mcnevinco.com)

Or pay online at [www.rockymtnashrae.com](http://www.rockymtnashrae.com)

# GREENING OUR MEETINGS

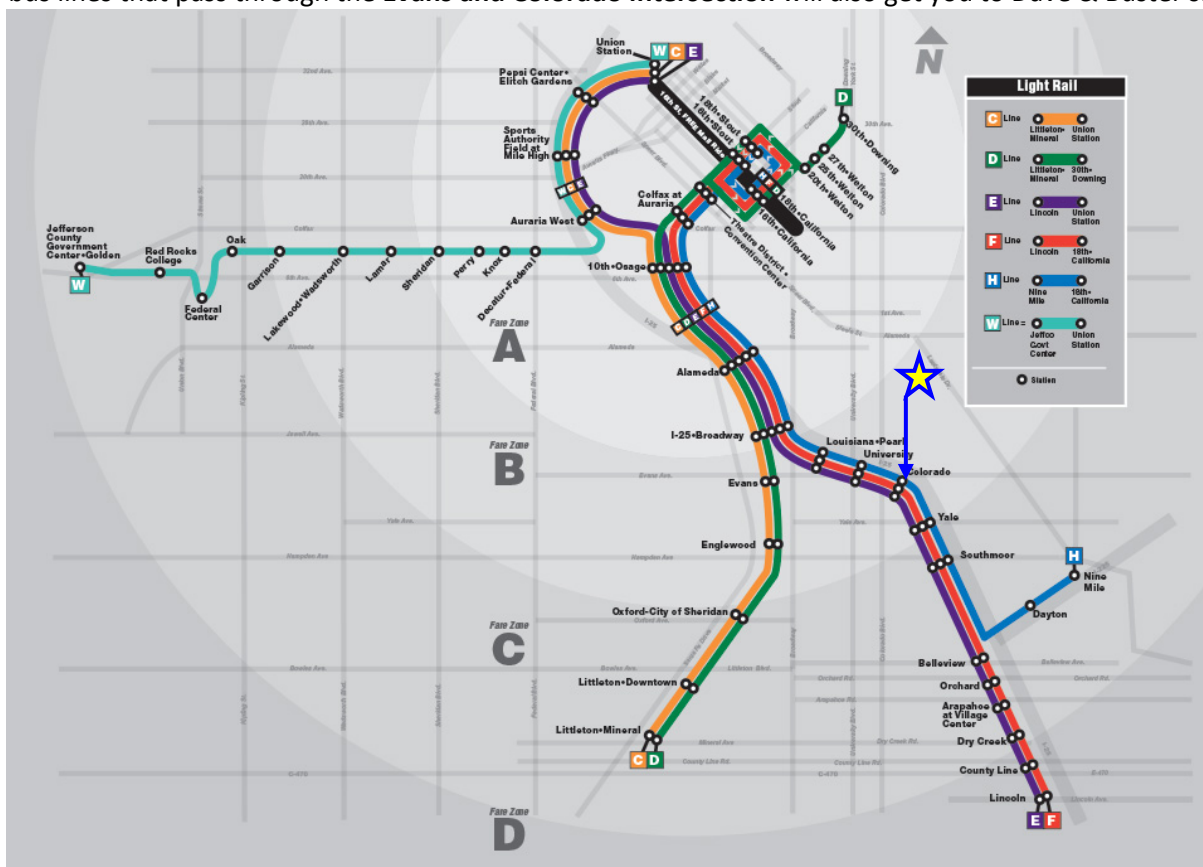
The Rocky Mountain Chapter of ASHRAE will present a free raffle ticket to anyone taking public transportation to the monthly ASHRAE meeting.

One raffle ticket will be given to each participant for each meeting. Visit [www.rtd-denver.com](http://www.rtd-denver.com) for system maps and times or contact [ridegreen@rockymtnashrae.com](mailto: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

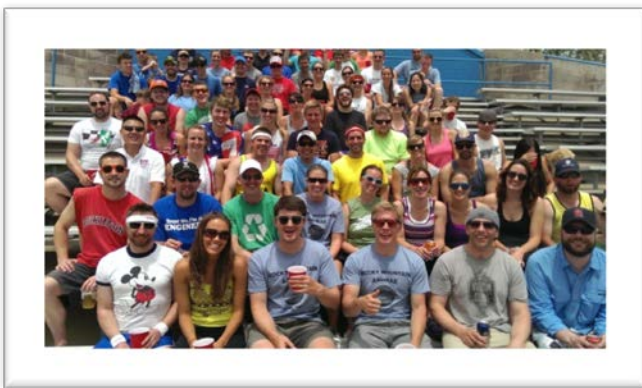
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**Young Engineers in ASHRAE (YEA) events are open to all ASHRAE Members, you do not have to be younger than 35 to attend.**

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## Inaugural ASHRAE Kickball Tournament, Sponsored by YEA

Rocky Mountain YEA hosted the first kickball tournament on Saturday June 7<sup>th</sup>. With nearly 80 attendees and 6 teams, the competition for the rights as champion was fierce. Teams had creative names like “Every Kick Begins with Kay” and “A Swift Kick in the Grass”. The team “Balls of Fire” was named champion at the end of the day. A catered barbecue lunch was served, and the kegs were well-visited in the middle of the two fields set up at the local park. The event was such a success that the YEA committee looks forward to next year’s tournament.



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## HVAC on Tap Educational Series and Site Tours

### HVAC on Tap

#### **Pushing the Envelope—Building Enclosure Commissioning: What, So What and Now What?**

Building enclosures impact occupant comfort, acoustics, energy use and sustainability--they also represent a large portion of the liability claims against designers and builders. Combined with the fact that our buildings’ durability and energy consumption is largely determined by the quality design and construction of the exterior enclosure, it's safe to say this is an important area to focus on quality and performance. With the newest version of LEED (v4) requiring Building Enclosure Commissioning (BECx), building designers, owners, managers and operators need to be aware of BECx and how to leverage the most value from the process.

When: Wednesday, September 24th.

Where: Breckenridge Brewery  
2220 Blake St. Denver, CO 80205

#### **Wanted!**

YEA is always looking for tour sites and hosts for HVAC on Tap. If you know of a great tour or want to host an HVAC on Tap, please let us know at [YEA@RockyMtnASHRAE.com](mailto:YEA@RockyMtnASHRAE.com).

# GOVERNMENT AFFAIRS

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## **Senate Appropriators Call for Recommendations to Reduce Overlap in Federal Energy Efficiency Programs**

The Senate Energy and Water Development Subcommittee has released its draft [bill](#) for fiscal year 2015. In the [report](#) accompanying the bill, the Subcommittee directs the U.S. Department of Energy (DOE) to lead a study on government-wide energy efficiency programs that exist at DOE, the Department of Housing and Urban Development (HUD), the Environmental Protection Agency (EPA), and other agencies and offices. This study will include recommendations to eliminate or consolidate energy efficiency programs. This language does not appear to be directed at any one program or agency, and is more likely representative of broader themes of consolidation that transcend issue areas and party lines.

Acknowledging the need for greater coordination between the public and private sectors, the Senate Subcommittee report also directs existing government coordinating bodies for energy efficiency programs to begin including programs for non-federal buildings (non-federal buildings are currently not addressed by these bodies).

While the Senate bill and report provide interesting insights into the priorities of Senate Appropriators, it is unlikely to have an immediate impact, as Congress is expected to pass a short-term continuing resolution (CR) when they return in September to avoid a partial government shutdown (the 2015 federal fiscal year begins October 1). A CR will fund government programs at the 2014 fiscal year levels. However, it is possible that Congress will enact individual spending bills, such as the Energy and Water Development Bill, during the lame duck session after the November elections. If the political winds shift, this becomes increasingly likely, given that the House passed their version of the Energy and Water Development Act ([H.R.4923](#)), and the release of the Senate bill provides grounds for bicameral negotiations to begin occurring.

## **ASHRAE and Over 20 Organizations Urge Congress to Support Building Energy Codes in the Energy and Water Funding Bill for FY 2015**

The report that accompanies the House-passed version of the Energy and Water Development Appropriations Act for Fiscal Year 2015 ([H.R.4923](#)) contains language that ASHRAE and several organizations view as potentially harmful to the development, adoption, and implementation of building energy codes. Here's the language as it appears in H.R.4923:

*“Consistent with current policy, the Department [of Energy] is directed not to advocate, promote, or discourage the adoption or inclusion of a particular building energy code or code provision, other than the technical and economic analysis work required by statutory mandate, or to provide funding to private third parties or non-governmental organizations that engage in this type of advocacy.”*

To balance this language, ASHRAE has been working with congressional offices and several stakeholder organizations to encourage Senators to come out in strong support for building energy codes by including the following or similar language in the final text or report of the Energy and Water Appropriations Act for Fiscal Year 2015:

*“Consensus-based, market-driven model building energy codes and standards provide energy and cost-savings to businesses, consumers, and taxpayers, and are used widely at all levels of government. The Department [of Energy] plays a significant and necessary role in the development, adoption, and implementation of model building energy codes, creating proposals based on publicly reviewed cost and technical analysis, providing technical assistance to states and localities, and convening public forums that encourage the exchange of information.”*

Earlier this week, ASHRAE sent a letter with over 20 signatories to Senate Appropriators encouraging the inclusion of this language, and offering to help educate the Senators and their staff on the benefits to consumers, business, the economy, and the environment of consensus-based model building energy codes.

As noted in the previous section of the *Update*, a continuing resolution (CR) is likely in the near-term, which would defang the House language. Even with a CR, this letter will continue to hold value, as it is still possible for Congress to enact an energy funding bill, and language similar to that contained in the House report has already shown up in other bills, such as the Energy Savings and Building Efficiency Act ([H.R.5027](#)).

# MEMBERSHIP PROMOTION

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Welcome to the "The Membership Promotion Page." We would like time to welcome the following new ASHRAE members for the months of June, July and August:

- Mr Sukreet Singh
- Mr Steven Nelson
- Mr Michael Clift
- Mr Jared Ritter
- Mr Robert Burrill
- Mr William Ciacci
- Mr Matthew Brown
- Mr Matt Jungclaus
- Mr Daniel Howell
- Mr Jonathan Carlin
- Mr Calvin Burdick
- Mr Justin Peltzer
- Mr Peter Moore
- Miss Michelle Newark
- Mr James Harrison
- Mr Greg Le Roy
- Mr David Manring
- Mr Scott Horowitz
- Mr Mark Montano
- B Thompson

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.

If you have questions or need membership assistance please send an email to [membership@rockymtnashrae.com](mailto:membership@rockymtnashrae.com) or call Laura Dyas @ (720) 221-1078

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.



ASHRAE Rocky Mountain Chapter



Rocky Mountain ASHRAE



@ASHRAERkyMtn

In 1875, inventor and scientist, Professor Thaddeus S.C. Lowe (1832-1913) patented a process for water gas production of "illuminating or heating gas." This gas making process fundamentally consists of the spraying of oil into water gas (blue gas) in a hot vessel for the purpose of increasing the calorific value of the gas. This carbureted water gas process was soon the most important manufactured gas in the United States of its time. He later invented a number of important and basic devices for use in atmospheric observation and metallurgical processing. Earlier, during the Civil War, he had created a military balloon force to spy on Confederate troops.





# 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](mailto:membership@rockymtnashrae.com)

# ROCKY MOUNTAIN ASHRAE HISTORY

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The 1982-1983 ASHRAE Rocky Mountain Chapter Roster was 53 pages long. Along with listing all of the local chapter and regional chapter officers, the roster listed past presidents from the founding of the “Rocky Mountain Chapter of ASHVE/ASHAE” organized in 1944, individual members’ listings followed by companies. At the back of the roster, the ASHRAE Student Members were listed. In 1982-1983, the following student chapters existed: University of Colorado – Boulder, University of Colorado – Denver, Colorado State University, and Colorado School of Mines.

## History:

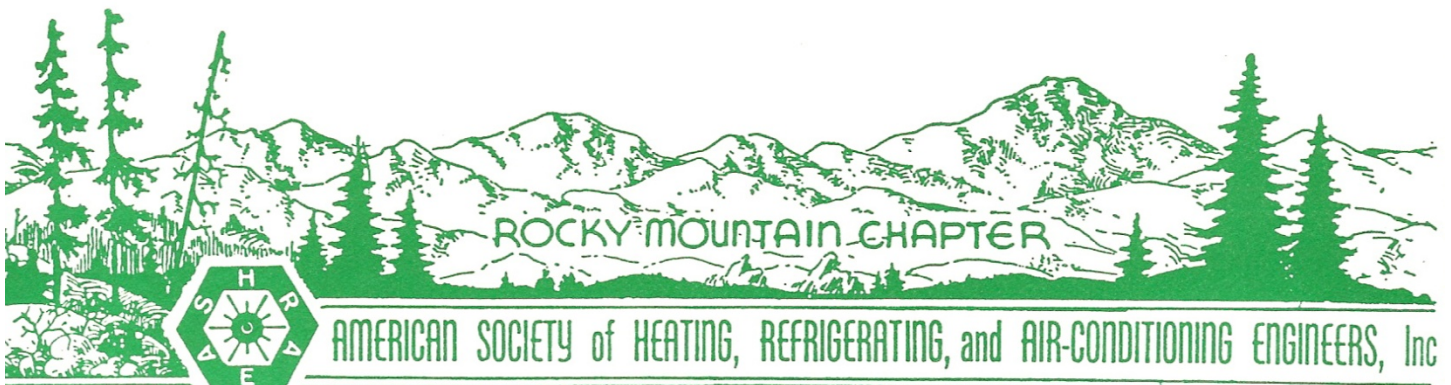
30 years ago in October was the first meeting of the new year. Here were the Chapter Officers:

President:	Donn Roberts
1 <sup>st</sup> Vice President:	Bill Kimball
2 <sup>nd</sup> Vice President:	Bob Martilla
Secretary:	Mike Scofield
Treasurer:	Ed Hoover

For the new year, the meetings were moved to a new location, the El Rancho Restaurant near Evergreen. They had a pretty booked calendar of events for the coming year:

- Ladies Night – They were going to hold a Valentine Sweetheart Dance
- 2<sup>nd</sup> Annual Ski Outing to Keystone
- ASHRAE Football – This event pitted the Salesmen vs. the Engineers & Contractors

Meal tickets back then were \$6 per meeting. For those who wanted a deal, you could purchase meal tickets for all 7 meetings plus one free drink per meetings for \$42!



# ASHRAE SOCIETY NEWS AND PRESS RELEASES

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## Papers Sought for International Conference on Energy and Environment in Ships

ATLANTA – Papers are being sought for a conference on ships and on land facilities that focuses on the state of the art and challenges related to environment, HVAC, energy security and health and safety among other topics.

Organized by ASHRAE, the Hellenic Navy, the Technical Chamber of Greece and the ASHRAE Hellenic Chapter, the International Conference on Energy and Environment in Ships takes place May 22-24, 2015, in Athens, Greece.

Abstracts (400 words in length) are due Oct. 13, 2014. If accepted, papers are due Jan. 26, 2015. Submittal information can be found at [www.ashrae.org/Ships2015](http://www.ashrae.org/Ships2015).

The Conference presents a comprehensive overview of the areas relevant to military and commercial ships.

The conference seeks to bring together the various professions in the shipping industry, operators, managers and technical personnel, according to Dimitris Charalambopoulos, conference chair.

“This conference will be the first of its kind to draw up the strong links to the Hellenic Navy, the shipping and the engineering community,” he said. “Attendees can expect to see current practices, new approaches, methodologies, technologies and identify areas of improvement.”

Topics include but are not limited to:

- Environmental Management
  - Working and living spaces in buildings and ships. IAQ, HVAC, smoke management, filtration, lighting
  - Insulation, vibration and human comfort
  - Cargo spaces. HVAC, refrigeration, lighting, insulation and vibration
  - Harbor. Port reception facilities, pollution and noise pollution
  - Fuel storage tanks
  - Management of hazardous materials
  - Waste management and disposal
  - Social and Financial Impact
- Environmental Impact Assessment
  - Environmental footprint
  - Renewable energy sources
  - Slow steaming
  - Net zero energy and water use
- Energy Security and Power Safety
  - Crisis management
- Sustainability and Recycling
  - Working fluids
  - Low temperature heat utilization
  - Advanced paints
  - Alternative fuels
- Commissioning, Retro-commissioning, Operations and Maintenance
- Health and Safety
- Standards and Legislation
- Knowledge Gathering, Diffusion, Training and Education

# ASHRAE SOCIETY NEWS AND PRESS RELEASES (CONT.)

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## New Course on Building Demand Response and Coming Smart Grid Offered by ASHRAE

ATLANTA – Peak demand management and response is a critical factor as most developed countries move toward a national smart grid, which will help provide a reliable and secure infrastructure that can meet future demand growth as well as more effectively integrate distributed renewable energy systems from photovoltaics and wind power.

“Peak demand management and response are becoming more important in building systems and their control,” Tom Lawrence, course instructor, said. “While demand management may not have much impact on the individual building total energy use, it may well be an effective tool for cost savings on electric utility bills. It also is vital for overall societal energy and environmental management. Thus, the considerations go beyond just one building’s energy cost and utilization.”

A new ASHRAE Learning Institute course, Building Demand Response and the Coming Smart Grid, addresses new technologies and design concepts that are leading the way to how buildings and their systems will interact with a coming smart electrical grid. The course is part of the ALI Fall Online series.

Demand response is the process a building, industry or residential electric consumer would use to reduce electricity use during peak demand periods on the electric grid. Lawrence points out that examples for demand response measures include changing set points for building air conditioning or chilled water systems, reduction in unnecessary lighting, selectively shutting off plug loads not currently in use, etc.

Lawrence also noted that ANSI/ASHRAE/USGBC/IES Standard 189.1-2011, *Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings*, includes a requirement that the building be designed to have the capability of reducing peak electrical demand through active controls or other load-shifting measures by 10 percent of the building’s projected peak demand. Similar requirements or incentives for demand response management are contained in the International Green Construction Code and with the latest version of the Leadership in Energy and Environment Design (LEED) program.

The course takes place Sept. 29. For registration costs and to register, visit [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses).

The 13 ASHRAE Learning Institute fall online courses provide professional development through in-depth information that is timely, practical and targeted to provide engineers in consulting practices, facility management or supplier support with instruction on applying ASHRAE standards and employing new technologies essential for advanced building performance.

Course participants earn continuing education credits and qualify for Professional Development Hours for each course completed. Courses are instructor-led, drawing upon professional knowledge of leading practitioners.

Details on all the courses can be found at [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses). The courses are:

- High-Performance Building Design: Applications and Future Trends, Sept. 8
- Air-to-Air Energy Recovery Applications: Best Practices, Sept. 10
- Complying with Standard 90.1-2013, Sept. 15
- Evaluation Methods for High-Performance Green Buildings, Sept. 22
- Fundamental Requirements of Standard 62.1-2013, Sept. 24
- Building Demand Response and the Coming Smart Grid, Sept. 29
- District Cooling and Heating Systems: Central Plants, Oct. 6
- Healthcare Facilities: Best Practices for Design and Applications, Oct. 8
- Maximizing Customer Benefits Using Key Electric Utility Products, Oct. 13
- Combined Heat and Power: Creating Efficiency through Design and Operations, Oct. 20
- Design of Commercial Ground Source Heat Pumps, Oct. 22
- Energy Efficiency in Data Centers, Nov. 3
- Commissioning for High-Performance Buildings, Nov. 5
- Exceeding Standard 90.1-2013 to Meet LEED® Requirements, Nov. 12

# ASHRAE SOCIETY NEWS AND PRESS RELEASES (CONT.)

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## ASHRAE Announces Special Limited Pricing Offer; Changes to In Operation Methodology for bEQ Program

ATLANTA – To allow greater uniformity for building types seeking an In Operation rating under its Building Energy Quotient (bEQ) program, ASHRAE is now using methodology from its standard for energy efficiency in existing buildings to calculate the rating.

The bEQ program, a consistent, comprehensive and accurate method of rating and labeling buildings based on energy use, offers two rating labels: an As Designed label that rates the building's expected energy use under standardized conditions— independent of the building's occupancy and usage variables—and an In Operation label that rates the building's actual metered energy use as influenced by the building's occupancy, structure and usage. bEQ helps owners and managers zero in on opportunities to lower building operating costs and make informed decisions on energy reduction strategies.

Previous to this change, the In Operation rating relied on ENERGY STAR Portfolio Manager to provide a normalized median energy use index (EUI) for the rating calculation. Unfortunately, this normalization was only available for those buildings that were covered by Portfolio Manager, so all other building types, such as convenience stores, libraries, fire stations and restaurants, had no methodology for this normalization.

“The change to this new methodology provides several advantages for those who are submitting buildings for In Operation ratings,” Ross Montgomery, bEQ Committee chair, said. “The new methodology allows greater uniformity for many more available building types, which should result in better rating comparisons since those buildings are now able to get a normalized energy use index. In addition, submission forms are now easier to use with more of the information/calculation automated and with expanded explanations, definitions and instructions to help better classify a candidate building.”

Montgomery explained that the updated bEQ Workbooks use methodology from one of the informative appendices of Standard 100, *Energy Efficiency in Existing Buildings*. This methodology allows generation of median EUIs by climate zone for all building types covered in the Commercial Building Energy Consumption Survey (CBECS), maintained by the U.S. Energy Information Administration.

He notes that similar changes are planned for the As Designed rating, which currently uses Target Finder to calculate the median EUI for normalization.

Given the updated improvements for the In Operation rating, ASHRAE is offering a four month limited offer to qualified ASHRAE members, allowing them to submit for two ratings with no registration/submission fee from July 30, 2014, until Nov. 30, 2014.

The offer is extended to ASHRAE members who are certified by ASHRAE as Building Energy Assessment Professionals (BEAP) or Building Energy Modeling (BEMP) Professionals, or professional engineers (PE) licensed in the jurisdiction where the rated building is located.

For more information on the offer, visit [www.buildingenergyquotient.org](http://www.buildingenergyquotient.org).

# EMPLOYMENT OPPORTUNITIES

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**Position**

Project Panning Engineer (Generation)  
Application Engineer  
Senior and Junior Level MEP  
Building Performance Engineer &  
Commissioning Agent  
Mechanical Engineer

**Company**

Platte River Power Authority  
Set point Systems Corp.  
SynEnergy  
Ambient Energy  
MKK

**Date Posted**

September 2<sup>nd</sup>, 2014  
August 30, 2013  
June 5, 2014  
July 15, 2014  
August 8, 2014

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

**ASHRAE Jobs Website Tool:**

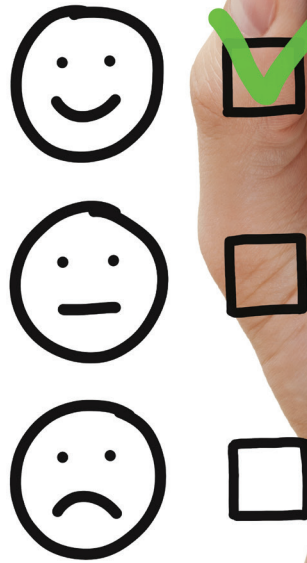
ASHRAE has now partnered with the job board service Bird Dog to promote employment opportunities for the ASHRAE community. This effort is called ASHRAE Jobs and can be linked to from the ASHRAE home page or [www.ashraejobs.com](http://www.ashraejobs.com).



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Visit us or register at [AFEC2014.com](http://AFEC2014.com)

# Would you like to show your ASHRAE Rocky Mountain Chapter pride? How about a polo with the chapter logo?



You can order polos through Michelle Swanson by emailing her at [mswanson@rmhgroup.com](mailto:mswanson@rmhgroup.com). Polos available include a light knit weight polo in mens and womens styles for \$27, you choose the color. An enduring favorite, our comfortable classic polo is anything but ordinary. With superior wrinkle and shrink resistance, a silky soft hand and an incredible range of styles, sizes and colors, it's a first-rate choice for uniforming just about any group. 5-ounce, 65/35 poly/cotton pique, Flat knit collar and cuffs, Metal buttons with dyed-to-match plastic rims, Double-needle armhole seams and hem, Side vents, Adult Sizes: XS-6XL



Banana	Bark	Black	Bright Lavender	Burgundy
Clover Green	Coffee Bean	Cool Grey	Court Green	Dark Green
Deep Berry	Eggplant	Gold	Hibiscus	Kelly Green
Light Blue	Light Pink	Light Stone	Lime	Maroon
Mau Blue	Mediterranean Blue	Mint Green	Navy	Orange
Purple	Red	Royal	Steel Grey	Stone
Strong Blue	Teal Green	Texas Orange	Tropical Pink	Ultramarine Blue
White				

Or a Nike dry fit performance polo for \$57, you choose the color. Nike Golf is known for classic polos engineered to take comfort to the next level. The Dri-FIT fabric technology delivers superior moisture management, while the stitch-trimmed shoulder panels and gussets make a distinctive difference. Flat knit collar, three-button placket and open hem sleeves. Pearlized buttons are selected to complement the shirt color. The contrast Swoosh design trademark is embroidered on the left sleeve. Made of 4.7-ounce, 100% polyester Dri-FIT fabric. Adult Sizes: XS-4XL



Black	French Blue	Midnight Navy	Skyline Blue	Varsity Red
Vivid Green	White			

# 2014 FALL TOURNAMENT



Sept 15, 2014 ARROWHEAD GOLF CLUB



TEE TIME 1:30 P.M. FOUR PERSON SCRAMBLE, TWO FLIGHTS

\$150 PER GOLFER - \$600 PER FOURSOME - SIGN UP ON [www.pikespeakashrae.com](http://www.pikespeakashrae.com)

FEE INCLUDES GOLF, CART, RANGE BALLS, ARROWHEAD BAG TAG, AND BANQUET

TWO FLIGHTS OF 1<sup>ST</sup> & 2<sup>ND</sup> PRIZE MONEY, Two long drives and closest to the pin prizes on par threes, CD Jones will generously continue to sponsor big bucks hole-in-one prizes

HOLE SPONSORSHIPS - ALL PROCEEDS TO ASHRAE RESEARCH IN YOUR NAME - sign up on the web-site, or contact Jim Mathews

NO GOLF EQUIPMENT RAFFLE THIS YEAR - Tickets will be sold at sign in for cash drawing. 90% of collected monies will be drawn and awarded to winners in \$50 - \$100 cash prizes.

Pikes Peak Chapter is in Colorado Springs, the golf is in Denver - Hmmm, could this be an opportunity for Firms with offices in both areas to compete for superior recognition? Charlie will be in contact.

1. \_\_\_\_\_ 2. \_\_\_\_\_

3. \_\_\_\_\_ 4. \_\_\_\_\_

For information please contact: **Roy Neese, (719-638-0166) [royneese@msn.com](mailto:royneese@msn.com); Ron Riggs, [midwest@aol.com](mailto:midwest@aol.com); Charlie Lengal, [Charlie.Lengal@me-engineers.com](mailto:Charlie.Lengal@me-engineers.com); Darin Tiffany, [darin@ctaengcorp.com](mailto:darin@ctaengcorp.com)**

ARROWHEAD GOLF CLUB is southwest of Denver, approximately one hour drive. Check out [www.arrowheadcolorado.com](http://www.arrowheadcolorado.com) for additional information and directions. (or contact above)

# ASHRAE Building Energy Quotient (bEQ) Training



***Building Energy Quotient (bEQ) is a building energy rating program that provides information on a building's energy use.***

**If you see this mark, you are working with a bEQ Professional.**

This mark can only be used by individuals certified by ASHRAE as Building Energy Modeling Professionals or Building Energy Assessment Professionals. These individuals have earned the highest recognition of their ability to deliver one or both components of bEQ.

[www.buildingenergyquotient.org](http://www.buildingenergyquotient.org)



## **How to become a bEQ Professional?**

ASHRAE Utah is hosting two bEQ training sessions in Salt Lake City that will help you prepare for the bEQ exam and certification. Each session is 2 days and offered on Monday/Tuesday and Wednesday/Thursday. Testing will be offered on Friday for those interested in bEQ Certification at an extra cost.

"How to Make Existing Commercial Buildings More Efficient, Health & Comfortable" is a two day seminar that incorporates the technical retro-commissioning procedure in defining, analyzing and developing recommendations for a building owner to consider for not only quick fixes and no-cost/low-cost measures but also capital-intensive modifications that address the findings from the walk-thru, ASHRAE Level 1 energy audit activities.

**1<sup>st</sup> Day of Seminar** – Review of the following ASHRAE Publications, Standards and Programs: Procedures for Commercial Building Energy Audits, 2nd Edition, Energy Efficiency Guide for Existing Commercial Buildings: Business Case and Technical Implementation Publications, ASHRAE Standards 55, 62.1, 90.1 & 100, the ASHRAE Building Energy Quotient (bEQ) Program, and associated bEQ Worksheets.

**2<sup>nd</sup> Day of Seminar** – A site visit and walk-thru will be conducted in the morning by teams of seminar participants who will compile their discoveries and complete the bEQ Worksheets in preparation for a presentation to be made to the facility owner's representative during the afternoon session.

Date/Location: **Session 1** Monday-Tuesday, September 15-16, 2014  
(16 PDH Hrs) LDS Hospital, 8th Ave & C Street, SLC, UT  
Parking: Free (Parking Garage West Side of Hospital)

**Session 2** Wednesday-Thursday, September 17-18, 2014  
(16 PDH Hrs) VBFA Office, 330 South 300 East, SLC, UT  
Parking: \$5 per Day (Between 2<sup>nd</sup> and 3<sup>rd</sup> East, 300 South)

**Testing** Friday, September 19, 2014  
HR Block, 888 South 200 East, Salt Lake City, UT

Time: Both sessions 8am – 4pm

Cost: Sessions \$100 – includes light breakfast and lunch  
Testing ASHRAE Members \$295\*  
Non-ASHRAE Members \$415\*  
\* Separate registration required (see last line of e-mail)

**Presenter: Terry E. Townsend, P.E., Distinguished Lecturer**



Terry E. Townsend, P.E., Fellow ASHRAE, is president, Townsend Engineering Inc., Chattanooga, Tennessee, and Panama City, Florida. In 2006-07, he served as president of ASHRAE, where he focused the Society's efforts on The ASHRAE Promise: A Sustainable Future, highlighting ASHRAE's work in sustainability in the building environment. His achievements as president include launching ASHRAE's first ever certification program, accelerating and expanding the Advanced Energy Design Guide series, setting more stringent savings for ASHRAE's energy standard, and proving resources on how ASHRAE can minimize the impact of its meetings on the environment.

**PLEASE DO NOT REPLY DIRECTLY TO THIS E-MAIL**

**Limited Seating Available – RSVP for Seminar Today at: [bbirkes@vbfa.com](mailto:bbirkes@vbfa.com)**

*NOTE: RSVP will not be complete until payment received. Registration will be opened up to members of ASHRAE Region IX (11 State Area) on 8/21/2014.*

**Pay on the ASHRAE Utah Chapter Website <http://utahashrae.org/onlinestore/>**

**Register for Testing (\$295 ASHRAE Members / \$415 Non-Members) at:  
<https://xp20.ashrae.org/secure/certifications/computer/index.php?type=BEAP>**

# ASHRAE Learning Institute

## 2014 Fall Online Course Series

### **2 WAYS TO REGISTER**

Take 3 or more courses and save 15% off registration!

**Internet:** [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses)

**Phone:** Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

**Note:** You may register up to 24 hours prior to an online course. Courses are in US Eastern Time.

#### **High-Performance Building Design: Applications and Future Trends**

Mon, September 8, 2014 – 1:00 pm to 4:00 pm EDT

#### **Air-to-Air Energy Recovery Applications: Best Practices**

Wed, September 10, 2014 – 1:00 pm to 4:00 pm EDT

#### **Evaluation Methods for High-Performance Green Buildings**

Mon, September 22, 2014 – 1:00 pm to 4:00 pm EDT

#### **Fundamental Requirements of Standard 62.1-2013**

Wed, September 24, 2014 – 1:00 pm to 4:00 pm EDT

#### **NEW! Building Demand Response & the Coming Smart Grid**

Mon, September 29, 2014 – 1:00 pm to 4:00 pm EDT

#### **District Cooling & Heating Systems: Central Plants**

Mon, October 6, 2014 – 1:00 pm to 4:00 pm EDT

#### **Maximizing Customer Benefits Using Key Electric Utility Products**

Mon, October 13, 2014 – 1:00 pm to 4:00 pm EDT

#### **Combined Heat & Power: Creating Efficiency through Design & Operations**

Mon, October 20, 2014 – 1:00 pm to 4:00 pm EDT

#### **Design of Commercial Ground Source Heat Pumps**

Wed, October 22, 2014 – 1:00 pm to 4:00 pm EDT

#### **Energy Efficiency in Data Centers**

Mon, November 3, 2014 – 1:00 pm to 4:00 pm EST

#### **Commissioning for High-Performance Buildings**

Wed, November 5, 2014 – 1:00 pm to 4:00 pm EST

#### **Exceeding Standard 90.1-2013 to Meet LEED® Requirements**

Wed, November 12, 2014 – 1:00 pm to 4:00 pm EST

**The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEU/PDH credits.**

#### **Complying with Standard 90.1-2013**

Part 1 - Mon, September 15, 2014 – 1:00 pm to 4:00 pm EDT

Part 2 - Wed, September 17, 2014 – 1:00 pm to 4:00 pm EDT

#### **Healthcare Facilities: Best Practices for Design & Applications**

Part 1 - Wed, October 8, 2014 – 1:00 pm to 4:00 pm EDT

Part 2 - Wed, October 15, 2014 – 1:00 pm to 4:00 pm EDT

## HVAC Design Training

2 Courses, 5 Days of Intense Instruction

### **HVAC Design: Level I - Essentials**

ASHRAE's *HVAC Design: Level I - Essentials* provides intensive, practical training for HVAC designers and others involved in delivery of HVAC services. Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

### **HVAC Design: Level II - Applications**

ASHRAE's *HVAC Design: Level II - Applications* provides advanced instruction on HVAC system design for experienced HVAC designers and those who complete the *HVAC Design: Level I - Essentials* training. In two days, gain an in-depth look into *Standards 55, 62.1, 90.1, and 189.1* and the *Advanced Energy Design Guides*. Training will focus on a range of topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

Visit [www.ashrae.org/hvacdesign](http://www.ashrae.org/hvacdesign) to register

# ASHRAE Certification Programs

## **BEMP Practice Exam Now Available**

ASHRAE has launched a practice exam for the Building Energy Modeling Professional (BEMP) certification. The practice exam is designed to be similar in content and difficulty to the actual certification exam. It is a low-cost, online tool for limited self-assessment with a score report overview of performance at the end of the exam. Practice exams are already in place for the BEAP, CPMP and HFDP certifications. Practice exams for the HBDP and OPMP certifications are under development and should be launched later this year.

Visit [www.ashrae.org/BEMP](http://www.ashrae.org/BEMP) to learn more about the BEMP practice exam.

Visit [www.ashrae.org/certification](http://www.ashrae.org/certification) to learn more about ASHRAE certifications.

## New Publications from ASHRAE

**ASHRAE, a leader in building information technology, develops publications that impact every facet of the environment, both indoors and out.**

### **Data Center Design and Operation – ASHRAE Datacom Series CD 4<sup>th</sup> Ed.**



This CD-ROM presents the full text of all eleven ASHRAE Datacom Series publications and Standard 127-2012 in fully searchable and printable PDF format. Authored by ASHRAE Technical Committee 9.9, the Datacom Series provides comprehensive treatment of data center cooling, energy efficiency, and related subjects.

\$289 (\$246 ASHRAE Member) / CD / 2014

### **ASHRAE Reference Offers Design Guidance on Healthcare HVAC Systems**



The second edition of *HVAC Design Manual for Hospitals and Clinics* provides in-depth design recommendations based on best practices from consulting and hospital engineers, with a focus on presenting what's different about healthcare HVAC systems.

\$129 (\$109 ASHRAE Member) / 312 pages / 2013

Visit [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) to learn more about these and other outstanding ASHRAE publications!