

# October MEETING

## Denver Meeting Information

### "Solar Hot Water Systems"

**DATE:** Wednesday, October 3, 2012  
**TIME:** 12:00 PM Registration/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

## "Solar Hot Water Systems"

Paul Davis is the General Manager for Apricus, a leading designer and manufacturer of solar hot water and hydronic heating products. Founded in 2003, Apricus has since grown into a global company with offices in the USA, Australia, Europe and sales in more than 30 countries.

Paul will be presenting a 45-60 minute presentation. Attendees will learn how solar hot water systems operate and understand the benefits this technology can provide for residential, commercial and industrial applications. This presentation will provide attendees with the knowledge necessary to properly size, design and specify a solar water system.

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## Friday OCTOBER 19<sup>TH</sup> Annual Brewery Tour

- 830am Meet at Sports Authority Field @ Mile High Stadium
- Tour Stops
  - Prost Brewery
  - Dry Dock Brewery
  - Lone Tree Brewery
  - Stranahan's Distillery
- \$60 Includes: breakfast, mid-morning snack, lunch, afternoon beer munchies, and all you can drink on the bus
- Two options to head home 430pm and 6pm
- RSVP to ([jjones@rmhgroup.com](mailto:jjones@rmhgroup.com) or (303)312-4641)

## 2013 Annual Conference Sustainability Project

Rocky Mountain ASHRAE is pleased to announce that Denver has been selected to host the 2013 ASHRAE Annual Summer Meeting. As is custom, the city selected to host the annual conference has a goal to support sustainability. This year Rocky Mountain ASHRAE has committed to overhauling the Denver Rescue Mission's aged and deteriorating systems and replacing them systems to improve efficiency and increase occupant comfort. The project website is complete! It has project information, photos, updates and donor acknowledgements. [www.ashraedenver2013.org/](http://www.ashraedenver2013.org/)

# PRESIDENT'S MESSAGE

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## PRESIDENT'S MESSAGE

Dear Rocky Mountain ASHRAE:

First off, I would like to thank Mark Scott with WJE Associates for presenting at both our lunch and dinner meetings. We had a pretty solid turnout for our first meeting. The chapter will be planting a tree via the Mile Hi Million initiative in the name of each of our speakers this year.

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

At our October meeting, Paul Davis with Apricus will present on "solar hot water systems" I hope you'll join us for lunch and a wonderful speaker. This will be a lunch only meeting here in Denver.

In addition to our monthly meeting we will once again host an ASHRAE Beer Tour on October 19, 2012. Spots are limited so be sure to sign up as soon as possible. Proceeds from this event will benefit ASHRAE Research.

Speaking of ASHRAE Research I want to let you know that the Rocky Mountain Chapter 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](http://www.ashrae.org/contribute) to make a donation.

There are a number of opportunities for you to get intimately involved with the chapter. Our committees are always looking for additional volunteers. The Rocky Mountain Chapter will host the ASHRAE Summer Meeting in June of 2013. We will need volunteers for that event as well so if get your name in there we'll be able to find something for you to do.

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

Best Regards,



Michelle Swanson

Chapter President  
Rocky Mountain Chapter of ASHRAE

### **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.

# ROCKY MOUNTAIN ROSTER

## Rocky Mountain ASHRAE 2012 - 2013 Board of Governors

Title/Committee Chair	Name	Email	Phone
<b>President</b>	Michelle Swanson	<a href="mailto:President@RockyMtnASHRAE.com">President@RockyMtnASHRAE.com</a>	303.239.0909
<b>President-elect/Tech Conf.</b>	Jon Rundquist	<a href="mailto:TechConference@RockyMtnASHRAE.com">TechConference@RockyMtnASHRAE.com</a>	303.904.7923
<b>Vice President/CTTC Chair</b>	Jessie Jones	<a href="mailto:CTTC@RockyMtnASHRAE.com">CTTC@RockyMtnASHRAE.com</a>	303.239.0909
<b>Secretary</b>	Mike Harrington	<a href="mailto:Secretary@RockyMtnASHRAE.com">Secretary@RockyMtnASHRAE.com</a>	303.733.2300
<b>Treasurer</b>	Megan Van Wieren	<a href="mailto:Treasurer@RockyMtnASHRAE.com">Treasurer@RockyMtnASHRAE.com</a>	303.974.1230
<b>Newsletter Editor</b>	Tony Anderson	<a href="mailto:Newsletter@RockyMtnASHRAE.com">Newsletter@RockyMtnASHRAE.com</a>	303.280.1401
<b>Past President</b>	Adam Bishop	<a href="mailto:PastPresident@RockyMtnASHRAE.com">PastPresident@RockyMtnASHRAE.com</a>	303.761.2291
<b>Director</b>	Aaron Zimmerman	<a href="mailto:Director1@RockyMtnASHRAE.com">Director1@RockyMtnASHRAE.com</a>	303.796.6000
<b>Director</b>	Mike Day	<a href="mailto:Director2@RockyMtnASHRAE.com">Director2@RockyMtnASHRAE.com</a>	303.421.6655
<b>Northern Section Chair</b>	Mike Fulton	<a href="mailto:NorthernSection@RockyMtnASHRAE.com">NorthernSection@RockyMtnASHRAE.com</a>	720.934.8273
<b>Membership</b>	Chris Garofoli	<a href="mailto:Membership@RockyMtnASHRAE.com">Membership@RockyMtnASHRAE.com</a>	303.396.9006
<b>Historian</b>	David Sietsema	<a href="mailto:History@RockyMtnASHRAE.com">History@RockyMtnASHRAE.com</a>	303.825.4328
<b>Website</b>	Scott Jones	<a href="mailto:Webmaster@RockyMtnASHRAE.com">Webmaster@RockyMtnASHRAE.com</a>	303.428.2800
<b>Student Activities</b>	Craig Wanklyn	<a href="mailto:Student@RockyMtnASHRAE.com">Student@RockyMtnASHRAE.com</a>	303.421.6655
<b>Sustainable Engineering</b>	Celeste Cizik	<a href="mailto:Sustainable@RockyMtnASHRAE.com">Sustainable@RockyMtnASHRAE.com</a>	303.974.1212
<b>Government Activities</b>	Celeste Cizik	<a href="mailto:Government@RockyMtnASHRAE.com">Government@RockyMtnASHRAE.com</a>	303.974.1212

# ASHRAE RESEARCH



*Don't Wait, Please Donate for the 2012-2013 ASHRAE Year*

Mail Check To:  
**ASHRAE RESEARCH**  
c/o Johnson Controls, Jon Rundquist  
10289 W Centennial Road  
Littleton, CO 80127

**Your contribution puts us closer to achieving**  
our goal. Please send what you can today!

\* Individual contributions of \$100 or more and  
Corporate contributions of \$150 or more  
receive this year's Commemorative Coin  
And Honor Roll Contribution status.

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

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

Other: \_\_\_\_\_

Other: \_\_\_\_\_


































*Or Contact Jon Rundquist at: 303-904-7923*

**THANK YOU Donors:** Michael Haughey, Pieter van der Mersch, Sheila Hayter,  
Michael Brandemuehl, E Cube Inc., Ken Urbanek, Scott Martin, Aaron Zimmerman

So far we have raised **\$3,425.00** for ASHRAE Research!!!



# 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

## October Meeting

**DATE:** Wednesday, October 17, 2012

**TIME:** 12PM – 1PM

**LOCATION:** TBD

**RSVP:** Celeste Cizik  
[CelesteLCizik@eaton.com](mailto:CelesteLCizik@eaton.com)

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

This committee meets once a month for planning and coordination. If you have questions about the committee, please contact Celeste Cizik or Megan Van Wieren at [sustainable@rockymtnashrae.com](mailto:sustainable@rockymtnashrae.com).

## PROJECT UPDATE - 2013 SUSTAINABILITY PROJECT

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### Denver Rescue Mission | Lawrence Street

**Project Description:** In preparation for the 2013 Annual ASHRAE Society Meeting, the Rocky Mountain chapter has selected the Denver Rescue Mission Lawrence Street facility as the Annual Meeting Sustainability Project in an effort to reduce the environmental impact of the meeting. Each year, ASHRAE selects a Sustainability Project for members to volunteer their time and services. This project traditionally is done for a non-profit organization that would significantly benefit from energy efficiency upgrades and improved systems.

**Project Update:** The Sustainability Project is underway and the committee has made exciting progress over the summer! The following activities highlight the work that has been completed to date. If you or your organization would like to assist in the 2013 Annual Meeting Sustainability Project, please contact Brian Lynch at 720.472.1037 or

- **Project Website** – The project website has updated fundraising information, donor acknowledgements, photos, and other updates. Please visit the project website today! <http://www.ashraedenver2013.org/>
- **Fundraising** – Fundraising is mostly complete! Individuals, companies, and organizations throughout the Denver area pledged to donate close to **\$400,000** of equipment, labor and services for the 2013 Sustainability Project. We could not complete this project without our supporters and would like to recognize all of them, please see below.
- **Construction Kickoff** – Construction will officially be kicked off on Wednesday September 26, 2012 with a presentation at the Denver Rescue Mission. Construction scheduling is currently underway and we hope to start several of the projects at the beginning of October. Updates to the schedule and construction photos will be uploaded to the project website.



<b>Platinum (\$25,000 +)</b>	
annexAir · <a href="http://www.annexair.com">www.annexair.com</a>	
ASHRAE - Society · <a href="http://www.ashrae.org">www.ashrae.org</a>	
MTech · <a href="http://www.mtechg.com">www.mtechg.com</a>	
The Denver Office of Strategic Partnerships <a href="http://www.denvergov.com/strategicpartnerships">www.denvergov.com/strategicpartnerships</a>	
Xcel Energy · <a href="http://www.xcelenergy.com">www.xcelenergy.com</a>	
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ATS · <a href="http://www.atsrockymtn.com">www.atsrockymtn.com</a>	
ASHRAE - Rocky Mountain Chapter · <a href="http://www.rockymtnashrae.com">www.rockymtnashrae.com</a>	
C&D Builders, Inc. · <a href="http://www.cd-builders.com">www.cd-builders.com</a>	
Ferguson Enterprises, Inc. · <a href="http://www.ferguson.com">www.ferguson.com</a>	
McNevin Co · <a href="http://www.mcnevinco.com">www.mcnevinco.com</a>	
Slattery · <a href="http://www.slatteryandcompany.com">www.slatteryandcompany.com</a>	
US Engineering · <a href="http://www.usengineering.com">www.usengineering.com</a>	
<b>Silver (\$5,000 to \$9,999)</b>	
Apricus · <a href="http://www.apricus.com">www.apricus.com</a>	
Camus · <a href="http://www.camus-hydraulics.com">www.camus-hydraulics.com</a>	
Carrier West · <a href="http://www.carrierwest.com">www.carrierwest.com</a>	
Cooper Lighting · <a href="http://www.cooperindustries.com">www.cooperindustries.com</a>	
Engineered Products · <a href="http://www.engproducts.net">www.engproducts.net</a>	
Johnson Controls · <a href="http://www.johnsoncontrols.com">www.johnsoncontrols.com</a>	
McKinstry · <a href="http://www.mckinstry.com">www.mckinstry.com</a>	
<b>Bronze (\$2,500 to \$4,999)</b>	
Digital Communications · <a href="http://www.johneisel.com">www.johneisel.com</a>	
<b>Patron (\$1,000 to \$2,499)</b>	
Air Purification	Ideal Electric
CFM Company	Long
Curb Technology	RMH Group
Don Davenport	Trane - Denver
<b>Partner (\$500 to \$999)</b>	
Denver Water	MKK Consulting Engineers, Inc.
M-E Engineers, Inc.	Western Mechanical Solutions
<b>Associate (\$200 to \$499)</b>	
ASHRAE - Black Hills Chapter	Shaffer Baucom Engineering & Consulting
James Waechter	P.V.C. Specialties Company
<b>Supporter (\$100 to \$199)</b>	
C&D Insulation Inc.	Aaron Zimmerman
Brian Lynch	
<b>Friend (Up to \$99)</b>	

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**annex** *Air*



**Rocky Mountain Chapter**



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**DENVER OFFICE OF STRATEGIC PARTNERSHIPS**



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**Xcel Energy**<sup>®</sup>

# 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.



# MEMBERSHIP PROMOTION

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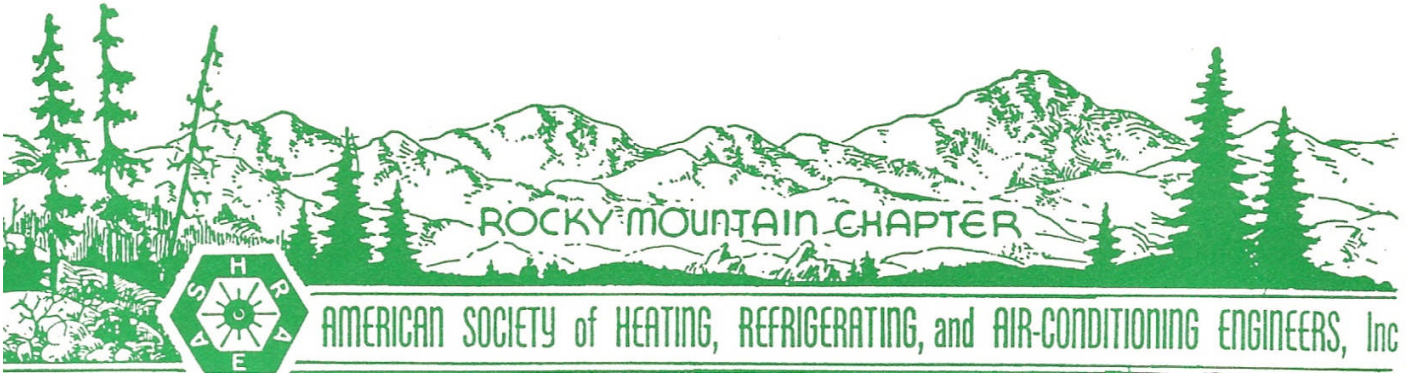
Welcome to the “The Membership Promotion Page.” We would like time to welcome the following new ASHRAE members for the month of September:

- Ms Helen Davis
- Ms Heidie Loudermilk
- Mr Jeremy Smallwood
- Mr James Eken
- Miss Emily Stege
- Mr Robert Padgett
- Mr Mark Morrone
- Mr Ronnie Cheney

If you have questions or need membership assistance please send an email to [cgarofoli@victaulic.com](mailto: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](mailto:cgarofoli@victaulic.com)

# ROCKY MOUNTAIN ASHRAE HISTORY

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## **“Events of October 2011”**

In October 2011 the ASHRAE Rocky Mountain Chapter began to start the process of implementing a new website. The old website was outdated and was not doing a good job of serving the needs of the ASHRAE Rocky Mountain Chapter. Tony Anderson volunteered to take on the tough task of implementing a website that would please everyone. With the board’s input, Tony worked with Star Chapter over the course of several months to have a new website built. After much hard work and many tough decisions, the new website went live in the spring of 2012. This new website will be integral to the success of the 2013 Annual Meeting that is being hosted in Denver.

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# STUDENT ACTIVITIES

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## 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 7, 2012**

Interested students must submit the following:

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

Interested students should submit materials via mail to the address below or electronically to the email address below by Wednesday, October 31, 2012 to:

Craig Wanklyn  
M E Engineers, Inc.  
10055 W. 43<sup>rd</sup> Avenue  
Wheat Ridge, CO 80033  
phone: (303) 421 6655  
[craig.wanklyn@meengineers.com](mailto:craig.wanklyn@meengineers.com)

CONTACT YOUR FACULTY ADVISOR, STUDENT BRANCH PRESIDENT, OR CRAIG WANKLYN FOR MORE DETAILS. YOU MAY ALSO CHECK OUT [WWW.ROCKYMTNASHRAE.COM](http://WWW.ROCKYMTNASHRAE.COM) FOR MORE INFORMATION



## STUDENT SCHOLARSHIPS

September 19, 2012

Dear Scholarship Applicant,

Congratulations on applying for the 2012 Rocky Mountain ASHRAE Scholarships! We appreciate you taking the time to complete the application process. This year's deadline for all applications is:

**Wednesday, October 31, 2012**

Applications received after this date will not be considered for the 2012 scholarships so make sure to get your application in early. A few important items to note:

1) The application is due Wednesday, October 31, 2012! Applications may be mailed to the address on the application or emailed to me (email is preferred to save paper!). If you email the application, be sure you get a response from me acknowledging the receipt of your application. If you do not get a response, please contact me directly.

2) Scholarships will be awarded at the 2012 Rocky Mountain ASHRAE Student Night meeting on November, 7, 2012. All applicants are encouraged to attend to be recognized by the chapter. Each school will also be acknowledged.

3) Please fill out all parts of the application. Any incomplete applications will not be reviewed.

4) 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.

5) Applications may be handwritten, typed, or filled out electronically.

6) Interested students must submit the following:

- a. Application General Information with signature (Attached to this letter)
- b. A cover letter (two 8 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.

This year, the Rocky Mountain Chapter plans to award four (4) \$1,000 scholarships. These scholarships may be used toward the student's academic curriculum (tuition, books, etc).

If you have any questions, please don't hesitate to call me at 303.421.6655. You can also email questions to me at [craig.wanklyn@me8engineers.com](mailto:craig.wanklyn@me8engineers.com). The scholarship committee is looking forward to receiving your application. Best of luck throughout your fall semester!

Sincerely,

A handwritten signature in blue ink that reads "Craig Wanklyn".

Craig Wanklyn, P.E., LEED® AP  
RMC ASHRAE Student Activities Chair

# ROCKY MOUNTAIN ASSOCIATION OF ENERGY ENGINEERS

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“Our Energy World – Building the Solutions”

13th Annual Energy Forum

October 18th, 2012

7:30 AM to 3:00 PM

Summit Event Center

411 Sable Blvd

Aurora, CO 80011

(close to I-225 and 6th Ave)

<http://www.rmaee.org/>

Plan now to join us for an informative day as RMAEE explores “Our Energy World – Building the Solutions.” Participants will receive 6 Continuing Education Hours. Lunch and continental breakfast are included with paid admission of \$60 for RMAEE members or AEE members and \$80 for non-members. This price ends at midnight October 16. At the door registrations - the prices increase \$10 each. Students with Valid ID will be admitted for no cost.

The Event Brite link to register on line is <http://energyforum2012.eventbrite.com> . If the link does not work copy and paste into your browser.

Please note that Former Colorado Governor Bill Ritter has agreed to be our afternoon keynote speaker.

Our tentative agenda is included below but is subject to change.

7:30 to 8:00 Continental Breakfast and Registration

Former Colorado Governor (and head of the CSU Policy Center for the New Energy Economy) Bill Ritter will speak about the future of the clean-energy economy in Colorado and how the Colorado model is being used to develop clean-energy jobs in other States.

Chuck Kutscher, NREL, “Global Warming”. Chuck will discuss Global Warming and look at evidence around the world that it is happening. He offers an argument by argument presentation to refute skeptics of global warming.

Mark Mahoney, Director of Army Regional Environmental and Energy Office, “Net Zero Effort for Military Bases”. Mark will discuss the Army’s Net Zero Energy programs with a specific focus on their efforts at Ft. Carson.

Adam Jackaway and Ellen Franconi, Rocky Mountain Institute, “Promoting Investor Confidence through Risk-Based Building Energy Modeling”. Adam and Ellen will lead a discussion on existing building retrofits being a gateway for energy investment opportunities and climate stabilization. RMI will share their deep retrofit methodology to provide practitioners with an effective implementation approach. Considerations for engaging investors by better meeting their informational needs will be addressed – specifically as it relates to energy modeling services.

Mary Horsey, Esource, Technology Assessments. Mary will discuss various emerging technologies including LED/Induction Lighting and RTUs (with VFD and FDD), and expand on what is new and exciting in the energy industry.

Don Catbagon/Dan Sachse, Xcel Energy, “Clean Air Clean Jobs”. This presentation will cover the closing of the Cherokee 1 and 3 plants, the Arapahoe plant, and the Valmont plant along with 34 miles of 24” high pressure gas lines. The presentation will also cover additional pollution control at Pawnee and Hayden and “what do all the changes in the Denver mean for your rates and emissions in the metro area?”.

#### Panel discussion on Measurement & Verification (M&V)

This will be a panel discussion of various M&V topics. John Canfield, Trident Energy, and Russ Chitwood, Nexant, will provide the perspective of the consultants to the GEO (now CEO) as independent 3rd-party verifiers and contract consultants; Curtis Cole, formerly with Arapahoe County, and Tom Ochtera, City of Westminster, will provide the owners’ perspectives; Robert Welch, Energy-Crafters, will provide the ESCO perspective. Other CEO representatives have also been invited to participate in the panel.

Topics for the panel discussion are:

- Value of M&V
- How M&V works in the real world
- Lack of M&V being done (what is appropriate amount)
- Engineering calculations
- Areas where there has been trouble
- Self-Policing of ECM analysis
- Should the M&V be done by ESCOs
- How contracts are written
- Case study examples

# Remembering Sebastian A. Ruma

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Those who have worked with Sebastian A. Ruma, knew him as “Sub.” He hailed from Nebraska and made his home in Lakewood, Colorado. A loving husband, father and grandfather to his family, Sub was also a mechanical engineer and was a well-known and respected colleague to the design community in Colorado and Wyoming.

Sub began his engineering career at Marshall & Johnson. During that time, he met another engineer in the small, tight-knit community by the name of Clint Cator. Though both Sub and Clint both left Marshall & Johnson as their careers progressed, they kept in touch. Their relationship developed into a friendship, and in 1963, Sub left Swanson Rink and joined Clint to form Cator, Ruma & Associates, Co. Sub and Clint presided over the mechanical consulting firm for decades. In 1971, Sub and Clint were integral in working with other consulting engineering firms to create the Certified Consulting Engineers of Colorado, a division of the American Council of Engineering Companies of Colorado. This group strived to improve the integrity of local engineering firms.

The projects that Cator, Ruma & Associates designed encompassed many types of

facilities including institutional, healthcare, higher education, and K - 12, among others. Sub was particularly involved with the telecommunication industry. He provided leadership for hundreds of projects in this sector over the years, from the Baby Bell System in the '60s through AT&T's fiber expansion years in the 2000s.

Telecommunications was not the only industry to receive long-lasting benefit from Sub's engineering talent. While working with the physicians and the facility director at National Jewish Health, Sub and the firm started working on a concept that would integrate infection control into engineered systems. This approach was later patented and became instrumental in the fight against tuberculosis. It was known as the Ultraviolet Germicidal Apparatus and Method. Sub's leadership and expertise helped guide Cator, Ruma & Associates to become a leader in the local engineering community. The company grew to include electrical engineering in 1982, and included a branch office in Laramie, Wyoming by the name of Cator, Ruma, Rosier. Sub helped operate this division for five years. In 1990, Sub became the President of Cator, Ruma & Associates. Sub served as President until December of 2000, and was actively involved with the leadership of Cator, Ruma until his retirement in 2005.

Sub's contributions to the consulting engineering community cannot be overstated. In his years as one of the leaders of Cator, Ruma & Associates, he mentored and helped develop many engineers who were fundamental in forming the foundation of the many engineering firms which populate the Front Range today. Sub's approach toward business always made use of the ideas and methods which would yield the highest probability for success. His ability to recognize a successful business approach was uncanny.

After a year of declining health, Sub Ruma passed away on Friday, August 24, 2012. He will be fondly remembered by his many friends and colleagues, and we are grateful for his long-lasting contributions to our community.

Information about the funeral mass and charitable contributions in Sub's memory is shown below.

## **Funeral Mass**

Saturday, September 15, 2012 at 9:30 a.m.

Our Lady of Fatima Catholic Church

1985 Miller Street

Lakewood, CO 80215

303.233.6236

## **Charitable Contributions**

Salesian Missions, 2 Lefevre Lane, New Rochelle, NY 10801-5710 or

UNICEF, 125 Maiden Lane, New York, NY 10038

# ASHRAE SOCIETY NEWS AND PRESS RELEASES

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## 7th INTERNATIONAL COLD CLIMATE HVAC CONFERENCE

November 12–14, 2012 | Calgary, Alberta

[www.ashrae.org/coldclimate](http://www.ashrae.org/coldclimate)

International applications and innovations in cold climate  
HVAC design.



**CEU/PDH Credits Available!**

# Fall 2012 Online Courses

**ASHRAE** Learn at your computer with instructor-led online courses in "real-time" from ASHRAE Learning Institute

A photograph of a man in a blue polo shirt sitting at a desk, looking at a laptop computer.

# ASHRAE SOCIETY NEWS – CONTINUED

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## Register Early & **SAVE!**

Register **BEFORE** August 31st:  
**\$239** (ASHRAE Member: **\$179**)  
Two-part courses: **\$439** (ASHRAE Member: **\$319**)

Register **AFTER** August 31st:  
**\$259** (ASHRAE Member: **\$199**)  
Two-part courses: **\$459** (ASHRAE Member: **\$339**)

## **2** Ways to Register

1. Internet: [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses)
2. 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.  
Course times are in Eastern US Time Zone.*

Earn 3 PDHs/AIA LUs or .3 CEUs | **Take 3 or more Courses & SAVE!**

### **Basics of High-Performance Building Design**

Mon, October 8, 2012—1:00 pm to 4:00 pm, ET

Instructor: Tom Lawrence

**Take both High-Performance Building Design courses and save!**

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### **Advanced High-Performance Building Design**

Wed, October 10, 2012—1:00 pm to 4:00 pm, ET

Instructor: Jeff Ross-Bain

**Take both High-Performance Building Design courses and save!**

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### **Complying with Standard 90.1-2010 HVAC/Mechanical**

Mon, October 15, 2012—1:00 pm to 4:00 pm, ET

Instructor: Mack Wallace

**Take both Standard 90.1 courses and save!**

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# ASHRAE SOCIETY NEWS – CONTINUED

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## **Complying with Standard 90.1-2010 Envelope/Lighting**

Wed, October 17, 2012—1:00 pm to 4:00 pm, ET

Instructor: Joe Deringer

**Take both Standard 90.1 courses and save!**

[REGISTER](#)

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## **Fundamental Requirements of ASHRAE Standard 62.1-2010**

Mon, October 22, 2012—1:00 pm to 4:00 pm, ET

Instructor: Hoy Bohanon

## **Energy Management in New and Existing Buildings**

Wed, October 24, 2012—1:00 pm to 4:00 pm, ET

**Instructor: Richard Pearson**

[REGISTER](#)

[REGISTER](#)

# EMPLOYMENT OPPORTUNITIES

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

<b>Job Title</b>	<b>Company</b>	<b>Date Posted</b>
<a href="#">Applications Engineer/Estimator</a>	Setpoint Systems	August 08, 2012
<a href="#">Project Controls Technician</a>	Setpoint Systems	August 08, 2012
<a href="#">Building Automation Sales</a>	Sierra Systems Integration	August 22, 2012
<a href="#">Building Automation Specialist</a>	Sierra Systems Integration	August 22, 2012
<a href="#">Building Automation Electronics Estimator</a>	Sierra Systems Integration	August 22, 2012
<a href="#">Entry Level Mechanical Engineer</a>	McGrath Incorporated, Denver Office	September 05, 2012
<a href="#">Mechanical Engineer &amp; Electrical Engineer</a>	Shaffer Baucom Engineering & Consulting	September 16, 2012

## **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 [jvonharz@ashraejobs.com](mailto:jvonharz@ashraejobs.com)) will be pleased to answer them.