

Rocky Mountain Association of Energy Engineers

Monthly Lunch Meeting November 20, 2014



Where: Indian Tree Golf Course
7055 Wadsworth Blvd Arvada

This month:

At the lunch meeting we will hear about Denver Water Rebates and Best Practices for Cooling Tower Efficiency. More information will follow shortly in the newsletter.

The speakers for this informative topic are:

- Rick Alvarado, from Denver Water is presenting on D.W.'s water conservation programs/rebates/incentives
- Chris Johnson from RK Mechanical (consultant to Denver Water) also presenting on best practices for cooling tower efficiency.

You will learn how to earn 50% of project costs or 40,000 for improving process efficiencies or 18.50 for every 1000 gallons of water saved. You can earn whichever is less. Cooling towers must meet a minimum savings of 50,000 gallons water per year to qualify.

To register on line click on [Lunch Registration](#). If you need a vegetarian entrée please click on [vegetarian](#)

RMAEE Board of Directors

President

Thom Johnson
RAD Energy Systems LLC
303-489-2774

Vice President

Thom Johnson
Eaton / EMC Engineers
303-209-0388

Treasurer/Secretary

Steve Kutska Xcel Energy
303-571-7254

Past President

Jess Lorentz
Upkeep Energy
303.946.0732

Board Member

Greg Bradshaw
Bradshaw Bldg. Solutions
303-475-7714

Board Member

Robert Welch
Energy - Crafters

Board Member

Andre Gouin
Xcel Energy

Board Member

Russ Chitwood
Nexant, Inc
303-402-2486

Board Member

John Winkel
720-244-2499

Board Member

Judy Porter
Architectural Energy Corp

Board Member

Curt Cole

Presidential Wisdom

Presidential Wisdom

What's Happening in our Industry

From AEE: <http://www.aeecenter.org/>

Important reminder to join AEE (National) or renew your membership for maintenance of your certifications. Most of my certifications are through AEE (including ground-source heat pump designer/installer) because of joint affiliations between AEE and other organizations. National membership helps simplify the tracking of CEUs or PDHs in one spot that are required to maintain certifications like CEM, CSDP, GBE, CGD and gives you access to other new certifications as our industry evolves.

Resources at AEE:

- **AEE YouTube video channel** - www.youtube.com/aeecenter. Numerous informative videos on a wide range of energy efficiency topics are available here.
- **Upcoming Conferences 2015 –**
 - **Globalcon - March 17-18, 2015**, Pennsylvania Convention Center, Philadelphia, PA
www.globalconevent.com
 - **Energy Management Congress (EMC) June 3-4, 2015**, Long Beach Convention Center, Long Beach, CA. www.energyevent.com
 - **WORLD ENERGY ENGINEERING CONGRESS (WEEC), September 30-October 2, 2015**
Orlando, FL. <http://www.energycongress.com/>

From Industry Newsletters:

NREL and Army Validate Energy Savings for Net Zero Energy Installations

The U.S. Army (Army) has partnered with the Energy Department's National Renewable Energy Laboratory (NREL) to increase energy security through improved energy efficiency and optimized renewable energy strategies at nine installations in the Army's portfolio. If all nine of the Army [Net Zero Energy Installation \(NZEI\)](#) pilot sites achieve net zero energy, they will replace approximately 8 percent of the Army's current total installation energy use with renewable energy. In fact, if all Army installations worldwide were to achieve a 25 percent reduction in energy consumption, as the NZEI pilot sites can, the Army would save approximately 20 trillion BTUs and up to \$300 million in annual energy costs.

The NZEIs studied by NREL employed technologies that can be replicated across the Department of Defense and other federal agencies, setting the stage for broad market adoption. The Energy Department's Federal Energy Management Program has been supporting this project's implementation and replication

Report:

http://www.nrel.gov/docs/fy14osti/60992.pdf?utm_source=NREL%20and%20Army%20Validate%20Energy%20Savings%20for%20Net%20Zero%20Energy%20Installations%20&utm_medium=email&utm_content=nrel&utm_campaign=NewsRelease

Fortune 500 Companies offering PV systems as employee benefit:

“Our company offers terrific benefits -- a 401(k), health coverage, solar panels for your home...”

That's the pitch human-resources people will soon make at big firms like Cisco, 3M and Kimberly-Clark. Under a deal those companies announced yesterday with the World Wildlife Fund, workers will be able to buy or lease solar systems at well-below retail cost.

“For the companies,” says *The New York Times*, “the arrangement offers a way to attract and retain a workforce that is increasingly attuned to the environment and to the steps employers take to preserve it.”

Average cost -- \$3 per watt of the system’s capacity. That’s one-third lower than the average U.S. cost last year of \$4.53

The October Meeting was the 15th Annual Energy Forum on October 15th at the Denver Police Protective Association Plaza Building. 11 presenters in 8 different segments covered topics from energy efficiency of marijuana grow operations to new BAS systems for small-to-medium commercial buildings to new energy efficiency technologies in the marketplace. Our thanks for a terrific group of diverse presentations and to our sponsors – notably Xcel Energy, e-Gauge, Denver Electrical Contractors, and Pentad Associates.

The November 20th meeting is planned to be a presentation by Denver Water on their water efficiency rebate programs and cooling tower efficiency ideas in particular. Indian Tree Golf Club, 7555 Wadsworth Blvd, Arvada, CO 11:30 AM.

As a reminder to anyone holding an AEE certification (CEM, CGD, GBE, CSDP, etc.): Each certified professional is required to obtain Continuing Education Units (CEU) or Professional Development Hours (PDH) each renewal period. Attendance at RMAEE monthly meetings, **being on the Board**, attendance of AEE conferences, etc. all qualify as credits for CEUs/PDHs. **Attendance at The 15th Annual Energy Forum will get you 1 full CEU (8 PDHs) this year.**

We need more members to volunteer to be on the Board, please. Contact any Board member if you are interested.

And please contact any of the Board with suggestions or commentary on how we can improve RMAEE for you.

Sincerely,

Thom W Johnson
RMAEE Chapter President, 2014

Upcoming Events

All lunch meetings are the third Thursday of the month at Indian Tree Golf Course unless noted otherwise

Stay Connected with the RMAEE!
Visit this award winning website at
<http://www.rmaee.org/>

We've added an employment section.

If you would like to post an employment notice please send your listing(s) to Dan Sachse at dan.sachse@xcelenergy.com.

Membership – It maybe time to renew!

- □ RMAEE Membership Fees may be due. The RMAEE annual fee is \$50/person, unless you hold a National AEE membership. For National AEE members the RMAEE annual fee is \$40. Local membership gets you \$10 off the regular lunch meeting price of \$30 through out the year. Fill out the **application (below)** and fax, mail or email to Steve Kutska.
- Annual Corporate Memberships- Improved! An Annual Corporate Membership (ACM) is assigned to the company, thereby allowing any employee of the company to use this “Annual Corporate Membership” to attend RMAEE meetings. Each ACM allows one company employee to attend the meeting. This is different from previous years, when only the assigned employee could use the corporate membership
- Another membership benefit is the password protected member’s corner on the RMAEE website, www.rmaee.org. All available presentations are stored here in PDF form for local members to download. If you are a local member and do not know the password send an email to dan.sachse@xcelenergy.com and the sign on and password will be mailed to your email address.

Rocky Mountain
Association of Energy Engineers
Membership Form

Members may join the local Rocky Mountain Chapter of AEE at any time during the year.

Membership will run for one year from the month you join RMAEE.

Please send the completed form or attach a business card and send along with payment for your membership dues. We have 2 ways to pay – check payable to RMAEE or Credit Card (Master Card or Visa cards only).

Mail payment to:

Steve Kutska

Xcel Energy

1800 Larimer Street

Denver, CO 80202

Stephen.p.kutska@xcelenergy.com

For questions about membership call Steve Kutska at 303 571-7254.

RMAEE Local Membership Dues Form

Please complete this box or simply attach a business card and mail along with your payment.

- I am an AEE National Member – a check for \$40 is enclosed for Chapter Dues AEE Member
- I am NOT an AEE National Member – a check for \$50 is enclosed for Chapter Dues
- Annual Corporate Membership - 220.00 per year allows the company to send one employee to each meeting. This also includes one free lunch meeting.

Name _____

Company _____

Address _____

City, State, Zip _____

Phone _____

Email _____

Credit Card Information ___ Master Card ___ Visa

Card Number _____

Expiration Date _____

Name as it appears on card _____

As a reminder to anyone holding an AEE certification:

Each certified professional is required to obtain Continuing Education Units (CEU) or Professional Development Hours (PDH) each renewal period. AEE does not maintain a record of your continuing education in the interim so you must maintain your own record of continuing education and complete a recertification form at the time of your renewal. A total of 10 renewal credits are required utilizing a combination of the following:

- Employment in energy activities
- Membership in a professional organization
- Office held in professional organization
- Continuing education (courses, seminars)
- Energy conference attendance
- Professional awards or published/presented papers

For more information, examples of how to tabulate credits, and how contact hours (CEUs, PDHs, etc) are converted to AEE credits see

<http://www.aeecenter.org/i4a/pages/index.cfm?pageid=3771>

Colorado Energy Events

If you know of other upcoming events that should be listed in this calendar, please contact Dan Sachse at dan.sachse@xcelenergy.com

Organization	Event	Location	Date	Contact
RMAEE	Monthly Lunch Meetings	Indian Tree Golf Course	Nov 20, 2014	http://www.rmaee.org/
CRES	NCRES Home Tour	Revive Fort Collins	Dec 16, 2014 7pm-9pm	http://cres-energy.org/
AEE	Globalcon	Pennsylvania Convention Center / Hall E Philadelphia, PA	March 17-18, 2015	http://www.globalconevent.com/
AEE	Energy Management Congress	Long Beach, CA Long Beach Convention Center	June 3-4, 2015	http://www.energyevent.com/

Colorado Governor's Energy Office:
<http://www.colorado.gov/energy/>

ASHRAE
<http://www.ashrae.org/>

Rocky Mountain Electric League
<http://www.rmел.org/>

IEEE
<http://www.ieee.org/portal/site>

Colorado Renewable Energy Society –
<http://www.cres-energy.org/events>

Solar Energy International -
<http://www.solarenergy.org/workshops>