

Rocky Mountain Association of Energy Engineers

Monthly Lunch Meeting
Feb 19, 2015 11:30-1:00



Where: Indian Tree Golf Course
7055 Wadsworth Blvd Arvada

Life Safety Systems & Integration with Building Systems

This presentation will cover **Life Safety Systems** (Fire Alarm, Smoke Control & Fire Sprinklers) concepts, design, installation, commissioning, the importance of having a qualified person spearhead the overall Life Safety System design/construction coordination and most important, the annual testing and maintenance of these systems. We will investigate the integration of life safety with other building systems. One of the most common temptations is to have the BAS perform the Smoke Control sequences but we will explain why this should be avoided at all costs. We will also cover how these concepts have changed with the new "I" codes and how different jurisdictions are accepting or amending the "I" codes, including the newest Denver amendments. Since most of the **Life Safety Systems** are existing, it is important to understand how tenant improvements and BAS/FAS retrofits may affect these systems and what safeguards can be implemented to assure occupant safety.

Greg Bradshaw, CEM, owner of Bradshaw Building Solutions, has 49 years experience in the construction industry, the last 39 years focusing on commissioning, re-commissioning, building automation systems, energy management, energy retrofits and smoke control systems.

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

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303-489-2774

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Presidential Wisdom

What's Happening in our Industry

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

This is another 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/aee. 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 (tidbits from around the industry):

ACEEE 2014 Scorecard on Energy Efficiency by State:

Colorado is ranked 13th in this list; Oregon, Rhode Island, and Vermont are tied for 3rd (4th & 5th).

<http://www.aceee.org/state-policy/scorecard>

LEED or Green Globes – Which to Use?

USGBC (architects) or NAHB (contractors) ratings systems for “green buildings”?

http://www.energyvortex.com/pages/headlinedetails.cfm?id=7160&utm_source=iContact&utm_medium=email&utm_campaign=AEE%20Energy,%20Power,%20Facilities%20Newsletter&utm_content=AEE+Energy+Newsletter

Tesla to Build Gigafactory Battery Plant in Nevada

Nevada won the plant with an interesting bunch of tax breaks.

http://www.energyvortex.com/pages/headlinedetails.cfm?id=6991&utm_source=iContact&utm_medium=email&utm_campaign=AEE%20Energy,%20Power,%20Facilities%20Newsletter&utm_content=AEE+Energy+Newsletter#sthash.X1Avmgv9.dpuf

Ingersoll Rand to Cut Greenhouse Gas Emissions 1/2 by 2020; Invests \$500M in Energy Efficiency

A global corporation’s commitment to improve its carbon footprint.

http://www.energyvortex.com/pages/headlinedetails.cfm?id=6987&utm_source=iContact&utm_medium=email&utm_campaign=AEE-%20Energy,%20Power,%20Facilities%20Newsletter&utm_content=AEE+Energy+Newsletter#sthash.6rroqssn.dpuf

US Senate refuses to accept humanity's role in global climate change, again

January 21st, the Senate voted 98-1 that “climate change is real and not a hoax”, but did not vote that it is caused by human activity per 2 amendments offered.

<http://news.sciencemag.org/climate/2015/01/first-time-years-u-s-senate-voted-climate-change-did-anybody-win>

BTW, Colorado’s Congressional delegation is now approximately 60% elected officials that do not think climate change is happening or that human activity is responsible, including new Senator Cory Gardner.

In Colorado, two bills have been submitted to repeal or alter the RPS.

Do you know who your representatives are in the State House and Senate and how they stand on energy issues?

Monthly Meetings Info

The January 15th, 2014 meeting was a presentation by Tracy Phillips (a consultant to the Environmental Defense Fund – EDF) on the Investor Confidence Program (ICP) for creating investment quality energy efficiency projects for potential clients, developing a set of metrics to encourage investing in such projects because of the financial quality of the proposals. Our thanks to Tracy for the informative presentation.

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

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.

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.

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>

Looking for Employment:

Matthew Cocking

EXPERIENCED PROJECT MANAGER SEEKING NEW AND CHALLENGING OPPORTUNITY

I am an accomplished and results oriented Project Manager with proven strengths in establishing and managing deliverables, timelines and budgets as well as leading cross-functional teams to execute key internal and external strategic projects and initiatives. Currently I am seeking project management opportunities in the Construction Services, ideally with a firm focused on sustainability, or green technology industries.

In my over six years of project management experience I have managed a diverse portfolio of projects; ranging from large scale commercial construction projects, LEED certified projects and organizational process improvements to emerging green technology proof of concept pilots. Most recently I was the Project and Operations manager for a green tech startup company that designed and manufactured Heat Exchangers, Indirect Evaporative Coolers, Energy Recovery Ventilators and custom Air Handling Units.

Areas of Expertise:

- Project Management best practices
- Understanding and interpreting construction documents and contracts
- Building and HVAC data collection (architecture, installation and acquisition)
- Leading across business functions (Engineering, Marketing, Sales and Management)
- Understanding MEP, Structural and Architectural engineered concepts
- Change Management

Credentials:

- LEED AP BD+C
- PMP

If you are need of a Project Manager and are interested in speaking to me more about my work history and qualifications, I would love to hear from you! The best way to contact me is through my e-mail listed below.

Matthew Cocking

E-mail: matthewbcocking@gmail.com

Laurel Van Driest

Experienced, cheerful, and omniscient administrative professional who provides broad-based support to executives and coworkers and has extensive knowledge of vendor and client management. Skills: office and operations management, proposal coordination and submittals, copyediting and proofreading, customer and client services. Some experience with human resources and insurance administration. 17 years at energy engineering firm in Boulder; two years with mining engineering firm in Salt Lake City. Contact Laurel Van Driest, 303-641-7156 phone and text, laurel.vandriest@gmail.com

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 Meeting	Indian Tree Golf Course	February 19, 2015	http://www.rmaee.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/
CRES	BCRES: High Performance Buildings + Natural – Straw And Cellulose	Rocky Mountain Institute 1820 Folsom St Boulder, CO	February 13, 2015 6p-8p	http://www.cres-energy.org/

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

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

Rocky Mountain Electric League
<http://www.rmel.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/workshop>

Job Posting:

Project Manager

Mosaic Sustainability has an immediate opening for an experienced Project Manager to lead sustainability consulting projects.

Mosaic is a fast-growing consulting firm with expertise in supply chain sustainability, data collection and reporting for greenhouse gas inventories and other sustainability reporting protocols, and sustainability strategy.

We specialize in providing our clients with data-driven insights to understand and report on their sustainability performance, along with customized strategies to improve. We're creative, agile, and driven by intellectual curiosity. We go the extra mile to respond to our customers needs.

Apply on our website: goo.gl/sSwxox