

March Section Meeting: Coal Technology at Evergreen Energy

With the rise in demand driven by economic and environmental concerns growth domestically and abroad, all manner of energy technologies have benefited from increased investment in development and commercialization. In many ways Colorado is at the center of this change with companies as diverse as Range Fuels, Vestas, and Rentech having their headquarters or major facilities located here. Evergreen Energy, headquartered in Denver, is one of those companies.

Coal technologies currently gaining the most press are focused on gasification with either direct use of synthesis gas as fuel for an IGCC unit (think GE) or subsequently reformed into a liquid hydrocarbon fuel (think Rentech). In contrast, Evergreen Energy uses a patented technology to upgrade low rank coal into a solid fuel with an improved heating value. Because 50% of US electrical power generation is currently provided by coal fired boilers with an expected life of 30 or more years, it is clear coal combustion will be a significant share of the electrical generation portfolio for the foreseeable future.

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March Section Meeting

- Topic:** Coal Technology at Evergreen Energy
- Speaker:** Mr. Kevin Milliman, Evergreen Energy
- Date:** Tuesday, March 18th
- Time:** 6:00 – 6:45 Social
6:45 – 7:45 Dinner
7:45 – 8:45 Presentation
- Location:** Merrick & Co. Headquarters
2450 S. Peoria St, Aurora
(303) 751-0741
Second floor conference room
- Menu:** Chicken, mashed potatoes and vegetables catered by Boston Market.
- Cost:** Members: \$20
(w/RSVP)* Non-Members: \$25
Students & Unemployed: \$10

Please RSVP by **Friday, March 14th** (early RSVPs are greatly appreciated!) indicating your name, phone number, and number of attendees. Please RSVP to Craig Turchi by voicemail at 303-874-8285 or email at rockyaiche@yahoo.com.

*Add \$5 for attending meeting without RSVP

Note: Payment will be requested from no-shows (unless reservation is cancelled by RSVP deadline)

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Along with coal combustion come stack emissions, including sulfur and mercury. In the US more stringent regulation of power plant emissions has created a greater demand for low sulfur, but low rank, western coal. Similarly, proposed revisions to mercury regulations in various jurisdictions are causing power plant operators to look at cost effective ways of meeting these new requirements. Evergreen Energy's commercial facility in Gillette, WY processes an inherently low sulfur subbituminous Powder River Basin coal feedstock into a solid fuel product (called K-fuel) with a heating value on par with the low end of the range for bituminous coals. In the course of removing moisture, the mercury content of the product K-fuel is reduced by as much as 60% relative to the feed.

For March's meeting, Kevin Milliman will discuss Evergreen Energy, its technology and its business potential. Mr. Milliman is a senior process engineer with the company and is involved in supporting the Gillette operation as well as future iterations of the plant design.

Nominations for AIChE Board Members

With the 2007-2008 Program Year coming to a close, it is time to give a big thank you to our board members for the past year. Their leadership has continued to provide us with interesting meeting topics and speakers. A special thanks goes to Craig Turchi for two years as program chair where he has done an excellent job lining up speakers and fun fellowship events. If you would like to volunteer or submit a nomination for any of the officer positions, please contact Kevin Milliman at 303-704-7530 or Kmilliman@evgenergy.com.

NEW MEXICO CORNER

JOIN US FOR OUR NEXT MEETING

Please attend the AIChE-NM April Meeting where special guest, Mr. Glenn Sprenger (Rocky Mountain Section Membership Chair), is making the trip down from Colorado to meet the New Mexico folks!

Topic: Solids Sampling Errors and Solutions

Speaker: Mr. Glenn Sprenger,
G. R. Sprenger Engineering
Inc., Golden, CO

Date: Thursday, April 3rd, 2008

Time: 5:30 p.m.

Location: The Standard Diner
320 Central Avenue SE
Albuquerque, NM

Cost: Professionals \$20
Students \$15
Includes meal, non-alcoholic
beverage, tax and gratuity

RSVP: To Kerrie Greenfelder at
GreenfelderKL@cdm.com by
April 1st, 2008

If you'd like to volunteer to speak at a future meeting or if you have any meeting/activity ideas, please let me know! Participation in the Albuquerque area has increased over the last year and I'd like to keep this trend going! Again, a warm "Thank You" to all of the AIChE-NM members for making our little subsection a great one! See you soon!
Kerrie Greenfelder, New Mexico Liaison
GreenfelderKL@cdm.com

EMPLOYMENT - Positions Available

Send **Position Available** notices to lauramos@msn.com. \$25/month per listing.
Listing will also be placed on web page (aiche.org/rockymtn).

AIChE Meetings

2008

- Apr 6-10 Spring Nat'l Conf.
New Orleans, LA
- June 22-25 2008 Process
Development
Symposium
Hancock, MA
- July 22-24 SBE's 4th Int'l
Conference on
Bioengineering and
Nanotechnology
Dublin, Ireland
- Sept 7-11 2008 Ammonia
Symposium
San Antonio, TX
- Nov 16-21 AIChE Annual Mtg.
Philadelphia, PA

For further information, contact
National AIChE.

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The objectives of AIChE are to advance chemical engineering in theory and practice, to maintain a high professional standard among its members, and to serve society, particularly where chemical, engineering can contribute to the public interest.

Rocky Mountain AIChE News Publication Schedule

April 2008 issue

Articles due Wednesday, April 2nd

Publish on Friday, April 4th

Meeting on Tuesday, April 15th

MEETING SCHEDULE

The Rocky Mountain District of AIChE generally meets the third Tuesday of every month, September through November and January through May.

