

September Section Meeting: Chemical Engineering at the School of Mines

Back to school night with AIChE! Join us as the Department of Chemical Engineering at the Colorado School of Mines (CSM) hosts our first Rocky Mountain AIChE meeting of the 2007-2008 season. The department offers two Bachelor of Science degrees, one in Chemical Engineering and a second in Chemical & Biochemical Engineering. Known for a strong track record in educational innovation, CSM undergraduate enrollment has been dramatically increasing over the past few years with abundant job opportunities for graduates across many of the chemical engineering fields, especially the energy sector.

Department research topics focus on problems of national interest and feature experimental and computation programs in a vast number of areas. The two biggest research programs in the department are related to energy (both fossil and renewable) and materials (electronic materials, membranes, polymers and colloids). Dr. Tony Dean will overview CSM's research agenda and discuss his work in fuel cell chemistry. The evening will feature poster presentations illustrating aspects of current research being done within the department.

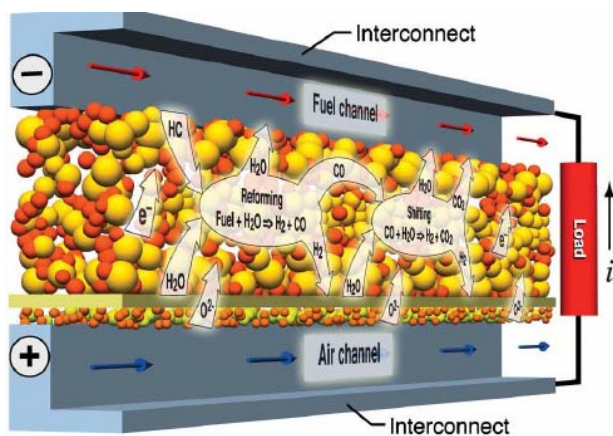
The highlight of the evening will be a tour of the Colorado Fuel Cell Center. Located on the CSM campus, the Center's faculty members are established experts in fuel cell science and technology. Research and development is supported by a wide range of government and private sources and includes different fuel cell technologies, fuel
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September Section Meeting

- Topic:** Chemical Engineering at the School of Mines
- Speaker:** Dr. Tony Dean, William K. Coors Distinguished Professor
- Date:** Tuesday, September 18th
- Time:** 6:00 – 7:00 Social & Poster Viewing
7:00 – 7:45 Dinner
7:45 – 8:00 Presentation
8:00 – 9:00 Facility Tour of the Colorado Fuel Cell Center
- Location:** School of Mines, Alderson Hall, 1613 Illinois Street, Golden
- Menu:** Baked Italian Herb Chicken, Stuffed Pasta Shells with Ricotta Cheese, Rigatoni Italian Sausage sautéed with Peppers and Onions, Meatballs, served with Italian Tossed Salad, two dressings, Marinated Tomato Salad with Fresh Basil, Mozzarella Cheese, and Garlic Cheese Bread
- Cost:** Members: \$20
(w/RSVP)* Non-Members: \$25
Students & Unemployed: \$10
- Please RSVP by **Friday, September 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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processing, and advanced materials. The Center's mission is to educate a new generation of scientists and engineers, who are uniquely equipped to meet the nation's and world's challenges for sustainable and renewable energy. Bring your junior-high or high school student to meet ChE researchers and hear about engineering at the School of Mines!



Dr. Dean is the William K. Coors Distinguished Professor of Chemical Engineering at the Colorado School of Mines. He did his undergraduate work at Spring Hill College and received his Ph.D. in Physical Chemistry from Harvard University. He taught at the University of Missouri-Columbia for 9 years. He then spent 21 years in the Corporate Research Labs at Exxon Research and Engineering, where his efforts focused on the quantitative kinetic characterization of gas-phase reaction systems. He joined the CSM faculty in 2000, where his research activities are focused on solid-oxide fuel cells and biomass conversion.

NATIONAL AIChE MAKES SECTION FORUM AVAILABLE

The National AIChE has opened the Local Section Leaders Forum to all local section members. This decision was taken to increase the traffic on the discussion board and increase section interactions. The Local Section Leaders discussion board is an excellent place to have virtual meetings of your executive committees, post meeting notes, and communicate the latest news and events to your local section members. The Forum can be accessed from the <http://Forum.aiche.org> website under the "AIChE Local Sections" category.

AIChE ROCKY MOUNTAIN SECTION WEBSITE UPGRADED

The Rocky Mountain AIChE section has recently upgraded our website location to be part of the National AIChE website. Check out our new site at www.aiche.org/rockymtn. Any updates or additions can be sent to Laura Moes at lauramoies@msn.com.

NEW MEXICO CORNER

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 sub-section a great one! See you soon!

*Kerrie Greenfelder, New Mexico Liaison
GreenfelderKL@cdm.com*

EMPLOYMENT - Positions Available

Abengoa Bioenergy, a leading producer of ethanol in North America, Europe and Brazil has several exciting positions open in the New Technologies - Process Engineering Group. This group is responsible for developing and specifying the process for all of our new technologies including production of ethanol from cellulosic feed stocks. To apply for the jobs listed below, please contact Bob Wooley, the Director of Process Engineering, at 303-564-5589 or Robert.wooley@bioenergy.abengoa.com.

Senior Process Engineer – Lead activities to develop design packages for our new technologies. Responsible for modeling (Aspen Plus), developing PFDs and P&IDs, reviewing in-house experimentation, arranging and reviewing vendor testing, and developing equipment specifications. Responsible for leading various reviews, including safety and HAZOP. A minimum of 10 years of relevant process engineering experience and a BSChE required.

Senior Process Engineer – Process Control – This position will be responsible for determining the control methodology, specifying hardware and assisting with the startup of pilot, demonstration and commercial scale processes. A minimum of 10 years of experience in specifying process control systems and hardware and a BSChE or BSME is required.

Senior Process Engineer – Cost Estimation – This position will be responsible for developing a cost estimates of new ethanol conversion processes being evaluated by the group. This will include estimates at various stages of the design development. Utilization of existing Abengoa cost information as well as outside sources is expected. A minimum of 10 years of cost estimating in the process industries and a BSChE or BSME is required.

Senior Process Engineer – Solids Handling – Moving non-standard solids such as chopped corn stalks, straw and wood chips will be an important element to our processing of cellulosic feed stocks. We are seeking individuals with at least 10 years of experience in designing and/or operating processes for the handling of these complex bulk solids on a commercial scale and a BSChE or BSME.

Senior Process Engineer – Liquid-Solid Separations – Conversion of solid cellulose feedstock to fuel involves multiple liquid-solid separation opportunities. We are seeking someone with experience in these types of separations who can work with vendors, consultants and researchers to test and specify the appropriate commercial scale equipment for our processes. A minimum of 10 years of experience in research, design or specification of this separation equipment and a BSChE or BSME is required.

Process Engineers – We are seeking process engineers with experience in process modeling (Aspen Plus or similar), development of material and energy balances (process flow diagrams), development of P&IDs and equipment specifications. A minimum of 5 years of experience in engineering in the process industries and a BSChE is required.

EMPLOYMENT - Positions Available

Ready to team up with a leader?



Suncor Energy USA is currently looking to expand its team with career opportunities in Refinery Capital Projects, Maintenance and Operations in Commerce City, Colorado. This business location provides a vital link between Suncor's oil sands resource in Canada and the growing energy market in the United States.

- **Operations Area Manager**

10 years related industry experience and proven leadership skills.

- **Reliability Engineer**

Rotating equipment experience, compressors preferred.

- **Process Design Engineer**

- **Area Process Engineer**

- **Electrical Engineer**

- **Instrumentation Engineer**

- **Maintenance Manager**

Qualifications: BSME, BSChE or BSCE degree and 5+ years of refinery experience.

All roles require eligibility to work in the U.S. Knowledge of SAP and/or related CMMS preferred for all roles.

Please submit your resume, identifying the position of interest in the subject line, by September 17, 2007, to:

Commercecitycareers@suncor.com

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

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Contact: *Mike Moes, P.E., (303) 796-0535*

mmoes@ekiconsult.com

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For info: lauramoes@msn.com [Listing Rate: \$30/month; \$200/year (8 issues); Circulation: 800+]

AIChE Meetings

2007

- Sept 16-20 2007 Ammonia Symposium
Henderson, NV
- Sept 26-29 Annual ECC Conf.
Colorado Spg, CO
- Nov 4-9 2007 Annual Mtng.
Salt Lake City, UT

2008

- Jan 20-23 SBE Int'l Conf. On Stem Cell Eng.
Coronado, CA
- Apr 6-10 Spring Nat'l Conf.
New Orleans, LA
- 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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Rocky Mountain AIChE News is published eight times a year by the Rocky Mountain section of AIChE. Opinions expressed herein are those of the authors and are not necessarily those of AIChE nor the officers of this section.

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

October 2007 issue

Articles due Wednesday, October 3rd

Publish on Friday, October 5th

Meeting on Tuesday, October 16th

MEETING SCHEDULE

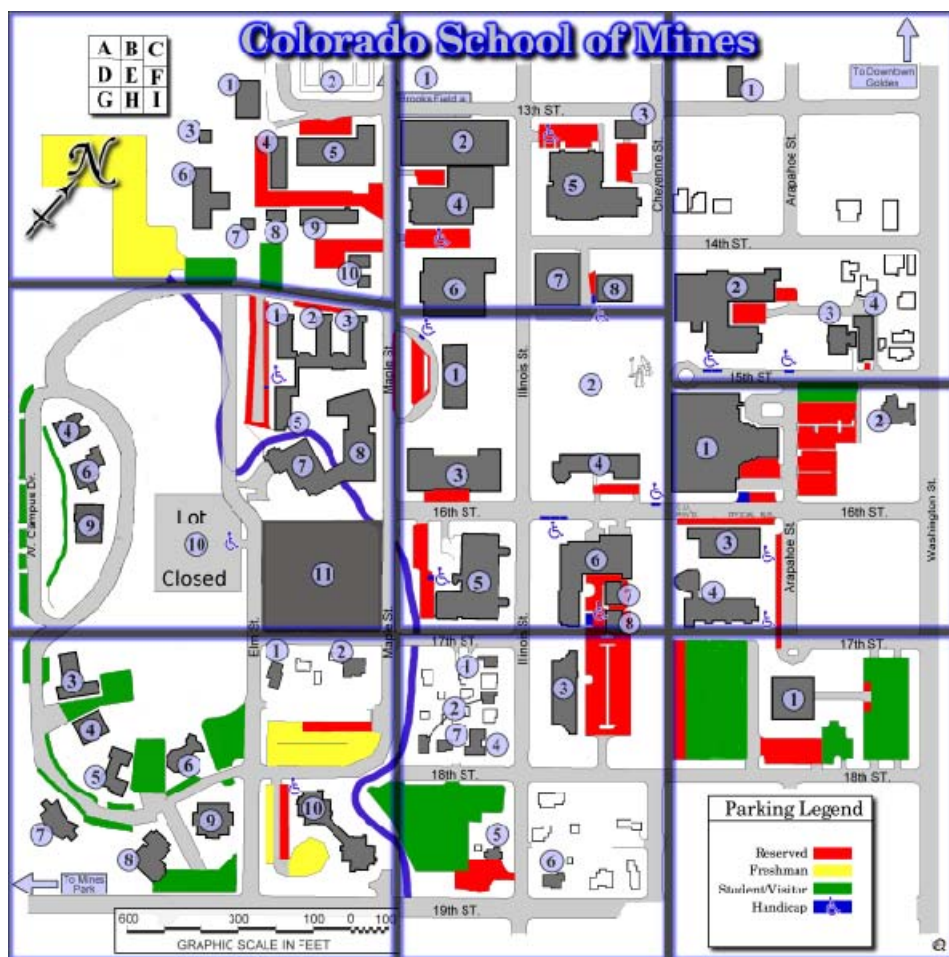
The Rocky Mountain District of AIChE generally meets the third Tuesday of every month, September through November and January through May.

Rocky Mountain AIChE News
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On the Web at:

<http://www.aiche-rm.org>

Send your E-MAIL address to
mmoes@ekiconsult.com to receive
this newsletter electronically!



DIRECTIONS: From I-25, take US 6 west towards Golden. Turn right onto 19th Street. Turn left onto Illinois Street and then right onto 18th Street. Free Parking is available in a large lot behind Alderson Hall (**Block E, Building 6**) off of 18th Street between Washington Street and Illinois Street. Check this online site for great maps to School of Mines http://www.mines.edu/csm_maps/