

February Section Meeting – Nanotechnology: A Truly Interdisciplinary Opportunity

Nanotechnology has taken engineering and scientific communities by storm in recent years. As stated in the National Nanotechnology Initiative website [<http://www.nano.gov>], “The President’s 2007 Budget provides over \$1.2 billion for the multi-agency National Nanotechnology Initiative (NNI), bringing the total investment since the NNI was established in 2001 to over \$6.5 billion and nearly tripling the annual investment of the first year of the Initiative.” Where is all this money going and are such investments worthwhile? What are the countless research labs across the U.S. and around the world hoping to accomplish by measuring and controlling matter in such diminutive dimensional scales? We will address these and other questions as we survey the vast field of nanotechnology in this presentation. We will learn how the controlled manipulation of matter at the nanoscale offers significant opportunities for not just engineers and scientists, but also for entrepreneurs. Ultimately, the trick for nanotechnologists is to cut through the hype and focus on producing high quality science and consequently nanotechnology’s promised paradigm-shifting products to benefit mankind in almost every facet of society...for nanotechnology truly is an exciting interdisciplinary opportunity if it can be made reality.

Dr. Tom Campbell received his PhD in Aerospace Engineering from of the University of Colorado before accepting an Alexander von Humboldt fellowship to investigate crystal growth at the

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February Section Meeting

- Topic:** Nanotechnology: A Truly Interdisciplinary Opportunity
- Speaker:** Dr. Tom Campbell,
ADA Technologies, Inc.
- Date:** Tuesday, February 20th
- Time:** 6:00-6:45 Social Time
6:45-7:45 Dinner
7:45-8:45 Presentation
- Location:** PPA Event Center,
2105 Decatur Street, Denver
- Menu:** Farmhouse fried chicken served with
mashed potatoes and vegetables.
Garden tossed salad with fruit
cobbler dessert.
- Cost:** Members: \$20
(w/RSVP)* Non-Members: \$25
Students & Unemployed: \$10

Please RSVP by **Friday, February 16th** (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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Albert-Ludwigs-University in Freiburg, Germany. A graduate of the Stanford Nanoscience & Nanotechnology Center for Professional Development, Dr. Campbell's career is focused on the advancement and commercialization of nanotechnology. A Senior Research Scientist and Leader of the Advanced Programs Group (Nanotechnology Initiative) at ADA Technologies, Dr. Campbell is also a Domestic Guest Researcher at the National Institute of Standards & Technology (NIST) where he is developing novel nanometrology tools for the characterization of carbon nanotubes. He also serves as a contributor to the Nanomanufacturing Composites and Materials chapter being drafted by a U.S. consortium of government, industry and academic researchers as a roadmap for the nanomanufacturing sector.

2007 STATE SCIENCE FAIR

by Michael Mutnan

Soon it will be time for the 2007 State Science Fair to be held at CSU. Our section participated last year and the winners attended our September meeting. This is a call for judges who want to participate. I served as a judge last year. It is a very intense day, but a very rewarding event. I do not have the official judging date, but it should occur April 5.

I have access to the Science Fair web site which enables me to identify our judges who will then be credentialed to participate. Plan on the entire day, with judging ending approximately 5:00 p. m.

Please contact me at 303-423-1586 or via e-mail at mmutnan@juno.com. Last year judges needed to be identified by March 1. Let us assume the same date for this year. The information I will need for the registration is a name, telephone number, and address for material to be mailed to you. This will include information on parking. Please also include an e-mail address. This is an intense but fun event.

ANNOUNCING THE ENGINEERING GRADUATE STUDENT VISIT DAY

Colorado State University's College of Engineering will be hosting an Engineering Graduate Student Visit Day on **Friday, March 2**. The day will be full of opportunities for prospective students to connect with faculty and learn more about the engineering graduate programs at CSU. The visit day will be hosted by the college and its departments/programs of biomedical engineering, chemical and biological engineering, civil and environmental engineering, electrical and computer engineering, and mechanical engineering. More information about the visit day and online registration can be found at <http://www.engr.colostate.edu/academics> and then click on Engineering Graduate Student Visit Day in the bottom right hand corner.

NEW MEXICO CORNER

Wow, can you believe it's already 2007?! Hopefully you've stuck to your New Year's resolutions better than I have... I am, however, holding on to my resolution of making 2007 a great AIChE year! With that, I'm in the process of organizing a tour of a local newspaper plant for the March timeframe. If you know someone at the Albuquerque Journal, Tribune, or Alibi, send 'em my way! Otherwise, watch your email, as details will be coming out soon.

Also, 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 (especially for the November 2006 meeting!) 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

Colorado's 2007 Engineers Week Dinner

Where: Double Tree Hotel, South of I-70
at 32nd and Quebec

When: Friday, February 23, 2007,
Reception: 6:00 pm, Dinner: 6:30 pm

Speaker/Topic: Ken and Ruth Wright /
Engineering and Cultural Innovation at
Machu Picchu

Cost: \$40.00 per person (\$320 for
Corporate Table of eight) includes name
in program if received by 9th

Other Notes: The Order of the Engineer
will be held from 6:00 to 6:30 at a cost of
\$20.00

See: The PEC website (www.pec.org) for
more information.

MARK YOUR CALENDAR!!

The Rocky Mountain Sections of the American Chemical Society and American Institute of Chemical Engineers will be jointly sponsoring a two and a half day regional conference in 2007. The event will be held at the Adams Mark in Denver beginning on August 30 and continuing through September 1, 2007. Conference symposia are currently under development and calls for papers will be forthcoming. All papers will be indexed in the Chemical Abstracts, so it provides a tremendous opportunity for students, professionals, and academics to further their careers.

We will be encouraging local section members to help with various planning activities including coordinating exhibitors, arranging an optional local social event, and identifying potential sponsors for the conference. Anyone interested in assisting with the planning is encouraged to contact Kevin Milliman at 720.529.9777 or kmilliman@ogenvironmental.com

New Mexico's 2007 Engineers Week Lunch

Where: Marriot Pyramid

When: Friday, February 23, 2007, Noon

Speaker: Justin Rattner, Chief Technical
Officer of Intel Corporation

Cost: \$30.00 per person, send
RSVP/payment to Kerrie Greenfelder
before 02/09/07

See: The NMSPE website
(www.nmspe.org) for more information.

AIChE Meetings

2007

- Mar 19-22 SBE Conference on Accelerating Biopharmaceutical Development Coronada Isl., CA
- Apr 22-26 3rd Global Congress On Process Safety Houston, TX
- Apr 22-27 2007 Spring Nat'l Houston, TX
- Apr 25-27 2007 Management Conference Houston, TX
- Apr 26-27 2nd AIChE/SPE Workshop – Exploiting the Value of Heavy Oil Houston, TX
- Aug 12-15 SBE 3rd Int'l Conf On Bioengineering and Nanotech. Biopolis, Singapore
- Sept 16-20 2007 Ammonia Conference Henderson, NV
- Nov 4-9 2007 Annual Mtng. Salt Lake City, UT

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.

How to Place an Ad or Job Posting

Members: Free; Non-members: \$25.00 for each article

Deadline: 1st Tuesday of each month

Email your text to: lauramoes@msn.com

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!



-  PPA Event Center
-  23rd Avenue Exit
-  Invesco Field at Mile High
-  Aquarium Restaurant
-  Six Flags Elitch Gardens
-  Pepsi Center
-  Downtown Denver

I-25 to 23rd Ave. Exit #211

West to Clay Street

South on Clay Street to 21st Ave.

West on 21st Ave. To Decatur St.

*PPA Event Center is on the corner
of 21st Ave. And Decatur Street*

DIRECTIONS: Take I-25 to 23rd Avenue (Exit #211). Go west to Clay Street. Turn left (south) on Clay Street to 21st Ave. Turn right (west) on 21st Ave. The PPA Event Center is located on the corner of 21st Ave and Decatur Street. The address is 2105 Decatur Street.