



Rocky Mountain AICHE News

February 2004

Volume 13 Number 5

February Section Meeting: Microfluidics

Microfluidics, a relatively new area of study has established its importance by facilitating novel classes of tools with prospects for biology, biophysics, materials science and the emerging interdisciplinary field of nanotechnology. Such instruments, which manipulate fluids within sub-millimeter conduits and exploit unique transport properties found on these length scales have demonstrated powerful and exciting applications for single cell analysis, high-throughput screening, and novel materials synthesis, for example. Metafluidics, Inc., has developed a suite of technology for precision control of complex fluids within microfluidic environments. The breadth of this technology, which ranges from a pump that can fit within a single human red blood cell to robust macroscopic hardware, will be presented and example applications demonstrated.

Dr. John Oakey earned his B.S. in Chemical Engineering at Penn State University and M.S. from the Colorado School Of Mines. Dr. Oakey received his Ph.D. in Chemical Engineering from the Colorado School of Mines in 2003 for work leading to the development of colloid-based microfluidic devices. His thesis work led directly to the development of a novel, comprehensive microfluidic control platform. He co-founded Metafluidics, Incorporated in December 2002 to commercialize this technology, for which he was awarded the Colorado School Of Mines Achievement Recognition Award for Technology Transfer. Currently serving as Metafluidics' President and CEO, his responsibilities include leading technology

February Section Meeting

- Speaker:** John Oakey
Co-founder, President & CEO of
Metafluidics, Inc.
- Topic:** Microfluidics
- Date:** Tuesday, February 17th
- Time:** 6:00 Registration
6:30 Dinner
7:30 Presentation
9:00 Adjourn
- Location:** Golden Hotel
800 11th St., Golden
- Menu:** Buffet
- Cost:** Non-Members: \$18
Members: \$15
Students & Unemployed: \$7.50

Please RSVP by **Friday, February 13th**. Indicate your name, phone number, and number of attendees by e-mailing Glenn Sprenger at Glenn.Sprenger@VECO.com. Alternatively, you may leave a voice mail for Glenn at 303-938-6642.

development and pursuing strategic partnering initiatives.

AIChE Meetings

2004

Apr 25-Apr 29 2004 Spring Nat'l
New Orleans, LA

May 3-6 Offshore Tech.
Houston, TX

June 20-23 Process Develop.
Symposium
Oakbrook, IL

June 29-July 1 CCPS Annual
Int'l
Orlando, FL

Sept 20-23 Safety in
Ammonia Plants
Denver, CO

Oct 7-8 Engineering &
Construction
Contracting
Colorado Spg, CO

Nov 7-12 2004 Annual Mtg.
Austin, TX

2005

Apr 10-14 2005 Spring Nat'l
Atlanta, GA

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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.

Articles for Upcoming Newsletters

Please submit articles for future newsletters to the editor at mmoes@ekiconsult.com. Let us know of interesting technical items you're working on or are familiar with, what is happening in the Chemical Engineering programs or AICHE Student Chapters at the universities in the Section, unique and useful web sites, or any other information your fellow Section members may find of interest.

LOOKING FOR AN EMPLOYEE??

If you have a position open for a chemical engineer, send a notice to mmoes@ekiconsult.com and we'll post it in the newsletter and on the website (aiche-rm.org).

SPEAKERS FOR UNIVERSITIES

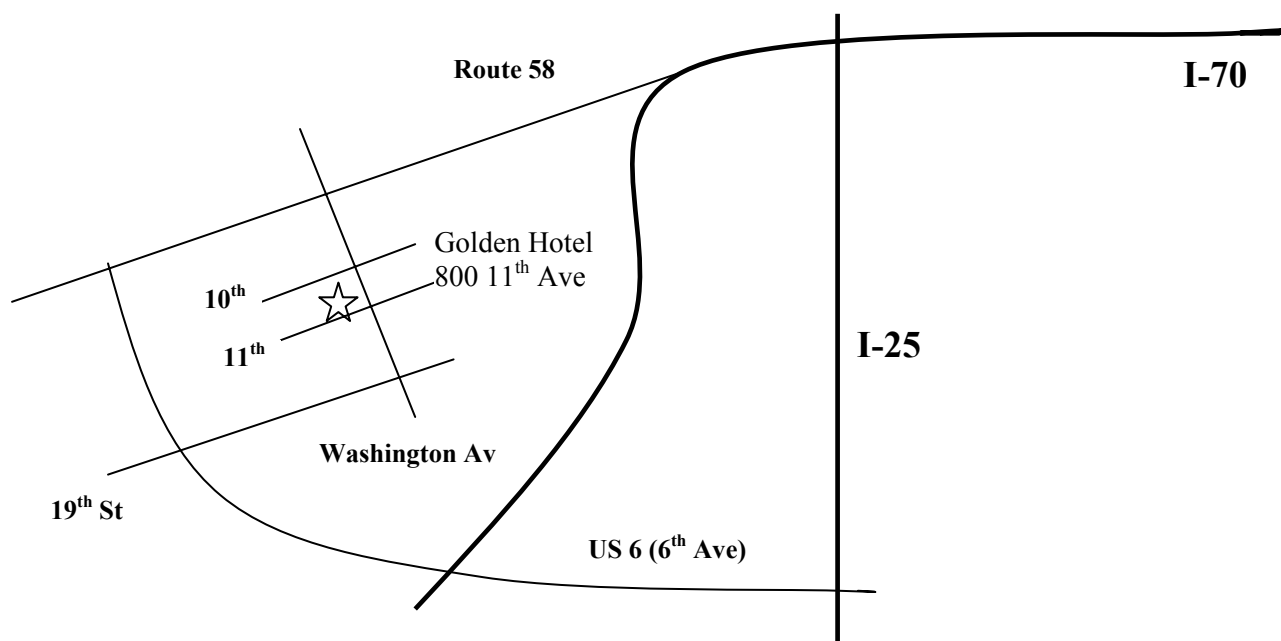
Are you willing to give a presentation to students at the local universities? The AIChE student chapters frequently request speakers from the AIChE Rocky Mountain Section. If you would be willing to meet with the students and share information about careers, job searches, industry experience or technical topics, please contact the Student Chapter Liaison Collin Greenwell at 720-497-2133.

Rocky Mountain AIChE News
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<http://www.aiche-rm.org>

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this newsletter electronically!*



DIRECTIONS: From I-70, take Route 58 (exit 265) west towards Golden. Take the Washington St exit and turn left at the stoplight. You will see Golden Hotel on the right side at the corner of 11th and Washington Av.

From I-25, take US 6 west towards Golden. Turn right onto 19th St. Drive through one stop light, then turn left onto Washington Av. You will see Golden Hotel on the left side at the corner of 11th and Washington Av.