

# **Rocky Mountain AIChE News**

February 2015 Volume 24 Number 5

## February Section Meeting: Fluidized Bed Basics - The What, Why, and How

Fluidized bed reactors and their general operating concept are more common than most people would think. There are a number of industries which use them to condition ore for metals extraction, refine materials for further processing, activating carbon, and cleaning up waste streams to name a few. At Hazen Research Inc. we have a number of different sized reactors which provide critical data when developing a process, experimenting with new feed sources, or trying a different method of processing. This presentation provides the general background into how a fluidized bed works, what components go into the system and what the equipment can look like, a few methods of operations, and some of the lessons learned from our operational experience.

Tyler received his BS in Metallurgical and Materials Science Engineering and MS in metallurgical and Minerals Processing Engineering from Montana Tech/the University of Montana in 2010 and 2011. In 2011 he joined Hazen Research Inc. and has 3.5 years of experience as a Process Engineer. Mr. Salisbury is responsible for managing, planning, installing, preparing, supervising, and reporting results for laboratory and pilot plant thermal processing projects. His experience with materials ranges from industrial minerals extraction to chemical processing to hazardous waste treatability; the equipment involved ranges in scale from small laboratory tube furnaces to 15-inch diameter fluid-bed pilot plants.

## **February Section Meeting**

**Topic:** Fluidized Bed Basics - The What,

Why, and How

**Speaker:** Tyler Salisbury, Project Engineer at

Hazen Research, Inc.

**Date:** Tuesday, February 17

**Time:** 6:00 Check-in and Networking

6:30 Dinner7:30 Presentation

**Location:** Wrigley's Chicago Bar & Grill

18200 W. Colfax Ave in Golden

Cost: Members: \$20 (w/RSVP)\* Non-Members: \$25

Students & Unemployed: \$10

**Menu:** American Buffet: Slow-roasted

roast beef, marinated grilled chicken, vegetarian pasta with marinara, mashed potatoes, vegetable medley, dinner salad, cheesecake, water, tea, and soft

drinks.

Please RSVP by **Friday**, **February 13** at <a href="mailto:rockyaiche@yahoo.com">rockyaiche@yahoo.com</a> indicating your name, phone number, number of attendees and pay at the meeting. Or you may RSVP and pay online using <a href="mailto:PayPal">PayPal</a> on our meeting link.

\*Add \$5 for attending meeting without RSVP

## Volunteer Judges Needed for the State Science Fair at CO State University April 9 in Fort Collins

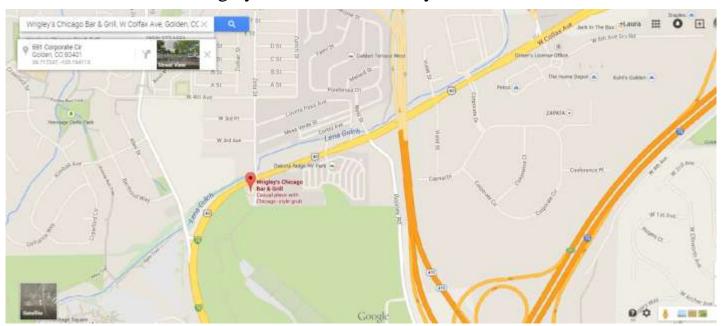
This year the State Science Fair will be held in the Lory Student Center, North Ballroom on the Colorado State University campus in Fort Collins. Judging will be held on April 9, between 12:15 p.m. and 5:00 p.m. As always we have a need for any member to participate. We are special judges, who hone in on projects that have a Chemical Engineering focus.

A judges meeting starts around 12:00 noon at one of the rooms on the same floor as the ballroom. Yummy pizza, soda, and cookies are provided for our gastronomical delight. If you wish to judge this year please contact Michael Mutnan at 303-423-1586 or via e-mail at <a href="mmutnan@juno.com">mmutnan@juno.com</a>. I will add your name to our official list. You will then receive a judge's packet and have your official credential waiting for you. If you become a walk in, you will receive a hand written badge.

If anyone wants to review the projects, they will be available at the end of February or the beginning of March. You can find them at <a href="http://www.csef.colostate.edu/">http://www.csef.colostate.edu/</a>. Find the hot button for project papers or some other similar title.

This is a very intense, but fun day. The section would love to have you there.

Meeting Location: Wrigley's Chicago Bar & Grill, 18200 W Colfax Ave, Golden. From downtown Denver, take W. Colfax ve (US 40 W) west. Drive about 11.5 miles to Wrigley's which will be on your left in Golden.



Send your email address to mmoes@ekiconsult.com to receive this newsletter electronically!

# AIChE Meetings

#### 2015

Mar 1-4 4th Int'l

Conference on Accelerating Biopharmaceutical

Development Scottsdale, AZ

Mar 9-10 NSF Workshop:

Chemical Engineering Academia-Industry Alignment Arlington, VA

Apr 17-19 Rocky Mountain

Student Regional

Conference Boulder, CO

Apr 26-30 2015 Spring

Meeting and 11th Global Congress on Process Safety

Austin, TN

June 2-4 Process

Development Symposium Houston, TX

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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.

AIChE Rocky Mountain is a public non-profit 501(c)(3) organizations and thus any and all donations are tax deductible.

## Rocky Mountain AIChE News Publication Schedule

March 2015 issue

Articles due Wednesday, March 4
Publish on Friday, March 6
Meeting on Tuesday, March 17

#### **MEETING SCHEDULE**

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