



# Rocky Mountain AICHE News

March 2004

Volume 13 Number 6

## March Section Meeting: Maximum Achievable Control Technology (MACT) Project

The Roche Colorado Corporation (RCC) Maximum Achievable Control Technology (MACT) project came about to ensure compliance with the U.S. EPA's Clean Air Act recently promulgated new emission standards. The regulations established new strict limits on the emissions of hazardous air pollutants (HAPs) from the pharmaceutical industry for all sites subject to the classification as a "Major Source" under the rule. The compliance date for industry was October 21, 2002; however, RCC was granted a one year extension due to emission controls put in place prior to this deadline. This is a technology based standard and utilizes technology which has been proven to be the best in the field. The design is comprised of a collection system which captures HAP vent streams from throughout the plantsite, and conveys it to an end-of-pipe device for control. RCC utilizes a thermal oxidizer to destroy the organic vapors, and documents successful control through the use of a continuous emissions monitoring device. This provides continuous data to demonstrate that the vapors are not just captured, but properly controlled.

Our speaker, Jonathan Lind, has worked in the pharmaceutical industry for over 21 years. Employed with Roche in California for 9 years and the Roche Boulder site for 12 years, his experience includes facilities, project engineering, and three years working in the Environmental Department. His project work included a wide variety from chemical processing to utilities and building construction. Jon attained a B.S. in Natural Sciences from the University of Michigan, and an Industrial Engineering Degree from De Anza College in California.

### March Section Meeting

- Speaker:** Jonathan Lind  
Roche Colorado Corporation(RCC)
- Topic:** Maximum Achievable Control  
Technology (MACT) Project
- Date:** Tuesday, March 23rd
- Time:** 6:00 Visitor Training Video  
6:30 Tour  
7:30 Presentation  
8:30 Q & A
- Location:** Roche Colorado Corporation  
2075 N. 55th  
Boulder, Colorado
- Attire:** **Pants, closed-toe leather shoes and long-sleeved shirts are required. If you have a hard hat and safety glasses, please bring them.** Hard hats and glasses will be available for those that do not have them.
- Menu:** Salad, Jambalaya, Ribs or Chicken, Rolls & Butter, Key Lime Pie
- Cost:** Non-Members: \$18  
Members: \$15  
Students & Unemployed: \$7.50

Please RSVP by **Friday, March 19th**. Indicate your name, phone number, and number of attendees by e-mailing Glenn Sprenger at [Glenn.Sprenger@VECO.com](mailto:Glenn.Sprenger@VECO.com). Alternatively, you may leave a voice mail for Glenn at 303-938-6642.

## ***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

For further information, contact  
National AIChE.

#### **National AIChE Contact Info**

##### **AIChExpress Service Center:**

(US/Canada): 1-800-AIChemE  
(1-800-242-4363)

(International): 212/591-8100

Fax: 212/591-8888

E-mail: [xpress@aiche.org](mailto:xpress@aiche.org)

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**Govt. Relations Fax:** 202/962-8699

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## ***Rocky Mountain AIChE Officers***

James Meyer	Director	303/462-7276
Kevin Milliman	Chair	303/804-2374
Glenn Sprenger	Vice-Chair / Program	303/938-6642
Curtis Dominicak	Secretary	303/969-9416
Craig Wildemuth	Treasurer	303/791-6307
Vacant	Membership	
Martin Vorum	Employment Info	303/789-0848
Collin Greenwell	Student Chptr. Liaison	720/497-2133
Laura Moes	Editor	303/770-2432

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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.

## **COLORADO SCIENCE AND ENGINEERING FAIR**

The annual Colorado Science and Engineering Fair will be held this year on April 8, 2004 at the Laury Student Center, Colorado State University Campus in Fort Collins. Middle and high school students from throughout the state will exhibit their projects, competing for both Grand Awards and a number of independently sponsored Special Awards. Each exhibitor won entry by competing at the local level. As in the past, Rocky Mountain Section AIChE will provide Special Awards for projects in sciences related to Chemical Engineering. If you are interested in judging the exhibits between 12:30 and 5:00 on April 8, please contact Natalie Van Tyne at [nvaintyne@Mines.EDU](mailto:nvaintyne@Mines.EDU).

## ***SPEAKERS FOR UNIVERSITIES***

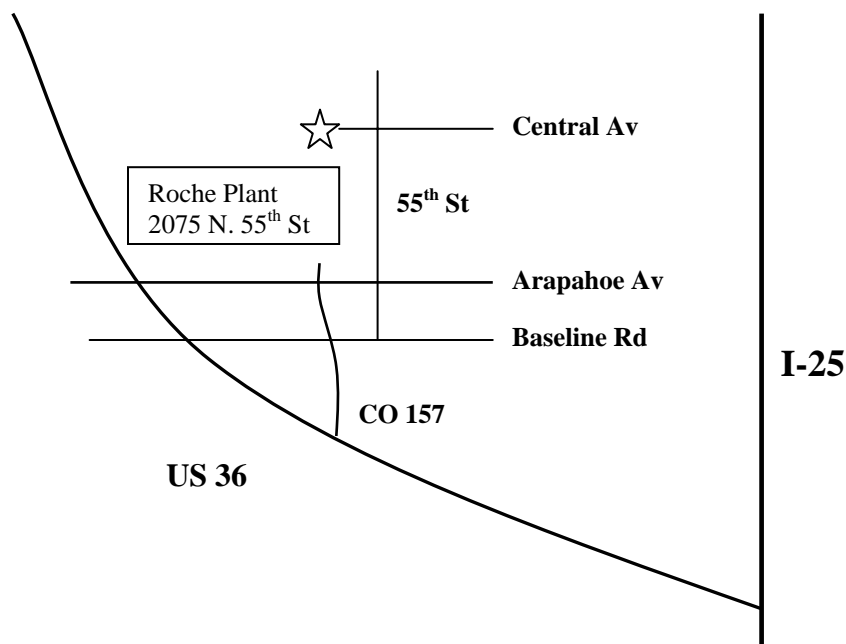
*Are you willing to give a presentation to students at the local universities? The AIChE student chapters frequently request speakers from the AIChE Rocky Mountain Section. If you would be willing to meet with the students and share information about careers, job searches, industry experience or technical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

Rocky Mountain AIChE News  
America Institute of Chemical Engineers  
1025 West Peakview Circle  
Littleton, CO 80120-3327

On the Web at:

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

*Send your E-MAIL address to  
[mmoes@ekiconsult.com](mailto:mmoes@ekiconsult.com) to receive  
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**DIRECTIONS:** From I-25, take US 36 west towards Boulder. Turn right (east) onto Arapahoe Ave (CO Route 7). Turn left (north) at 55<sup>th</sup> Street. Go north to the first light (Central Ave to the east, Roche Plant entrance to the west) and turn left (west) which will lead to the south parking lot of the Roche Plant. Park anywhere in the south lot and proceed to the guard shack. You will be escorted into the plant for registration and a short training video. Pants, closed-toe leather shoes and long-sleeved shirts are required.