

April Section Meeting: Acid Mine Drainage – New Approaches to an Old Problem

Production of acid mine drainage (AMD) and other mining-impacted water has long been a problem – particularly at coal mines in the eastern U.S. and hard-rock metal mines in the western states. AMD is caused when water flows through sulfur-bearing materials (e.g., tailings, exposed mine walls) forming solutions of net acidity. AMD comes mainly from abandoned coal mines and currently active mining. AMD is the main pollutant of surface water in the Mid-Atlantic States (EPA Region 3), where it degrades more than 4,500 stream miles with the loss of aquatic life, and restricts stream use for recreation, public drinking water and industrial water supplies. While hard-rock mining is an important element of the economy in the western states, it has also created a multitude of environmental problems. Subsurface drainage and surface runoff from mine sites has negatively impacted water quality in streams throughout the Rocky Mountain states. Traditional approaches to dealing with these types of water have been costly, inefficient, or both.

Golder Associates is an international engineering and environmental services company with over 5,200 employees and offices in 22 countries. Mr. Conroy leads Golder's Colorado-based Water Treatment Group. His presentation will look at some of Golder's new approaches to management of acid mine drainage that are protective of the environment as well as more cost effective for mine operators.

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April Section Meeting

- Topic:** Acid Mine Drainage – New Approaches to an Old Problem
- Speaker:** Kevin Conroy, Principal and Water Treatment Group Leader, Golder Associates, Inc
- Date:** Tuesday, April 17th
- 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:** Southwestern Fajitas Buffet: Combination of beef & chicken, grilled onion, green peppers, tortillas, guacamole, pico de gallo, sour cream, cheddar cheese, Refried beans and Spanish rice, with assorted dessert platter
- Cost:** Members: \$20
(w/RSVP)* Non-Members: \$25
Students & Unemployed: \$10

Please RSVP by **Friday, April 13th** (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

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Mr. Conroy has almost 24 years of professional experience in water & wastewater management and treatment. He has worked on a variety of projects for the Department of Energy, mining clients, commercial nuclear power plants, and other private clients. Prior projects encompass a variety of contaminant types including metals, organic compounds and radionuclides. These projects cover evaluation and development of process solutions for complex water management problems, including bench and pilot plant studies; multi-disciplinary design for treatment facilities with constructed values of up to \$15 million; direct construction of treatment facilities with constructed values of up to \$5 million; operations and maintenance of acid mine and industrial wastewater treatment facilities. Mr. Conroy has a BS and MS in chemical engineering from the Colorado School of Mines and is a registered professional engineer in Colorado and ten other states. He is a member of AIChE and the American Nuclear Society

Colorado Science and Engineering Fair

The 52nd Annual Colorado Science and Engineering Fair (CSEF) was held at Colorado State University in Fort Collins on April 5, 2007. The fair is supported by public and private organizations, government agencies, school districts, as well as the efforts of hundreds of volunteers. 300 finalists from thirteen regions presented at the fair and were divided into two categories: Juniors being grades 6 to 8, Seniors being grades 9 through 12.

As usual, AIChE provided two "Special Awards" at both the Senior and Junior levels - \$100 for first place and \$75 for second place. Congratulations to our winners: Katelyn Yowell from Genoa-Hugo School, Nathan Weeks from the Classical Academy, Derek Kramer and Bailey Leppek from Cherry Creek High School, and Eric Keeling from La Veta Jr/Sr High School. Thanks also to our "Special Awards" judges: Amber Beach, Joel White, Alex Cherubin, Daniel LaRivere, and organizer Michael Mutnan.

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. A manual on how to use the AIChE Forum is available in PDF format on the www.iche-rm.org website. The Forum can be accessed from the <http://Forum.iche.org> website under the "AIChE Local Sections" category.

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 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 (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

EMPLOYMENT - Positions Available

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

AIChE Meetings

2007

- 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

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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.

ROCKY MOUNTAIN AIChE NEWS PUBLICATION SCHEDULE

May issue

Articles due May 2nd, 2007

Publish on May 4th, 2007

MEETING SCHEDULE

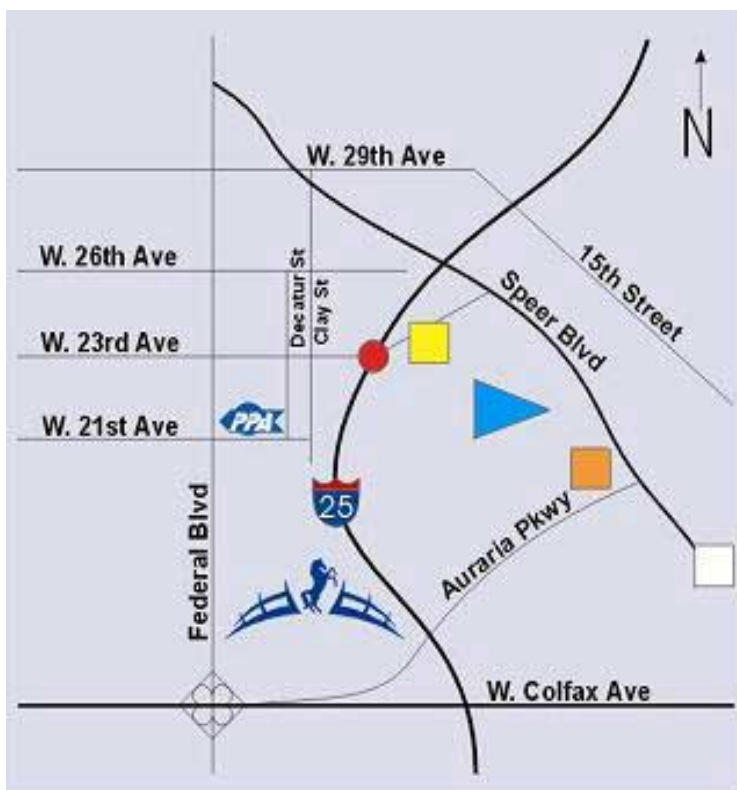
The Rocky Mountain District of AIChE generally meets the third Tuesday of every month, September through November and January through May.

Rocky Mountain AIChE News
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On the Web at:

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

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this newsletter electronically!*



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 -  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*