

### January Section Meeting: The Use of Vacuum in the Chemical, Pharmaceutical and Industrial Application

This presentation will review the fundamentals of vacuum, including nomenclature, volumetric expansion and altitude considerations.

The discussion will include a review of the vacuum equipment currently being used in industry today as well as their advantages and disadvantages. Among the equipment to be discussed will be air and steam ejectors, liquid ring vacuum pumps and dry vacuum pumps.

Also we will be discussing some of the design considerations involved in choosing the appropriate vacuum system for your application.

Mitchell J. Levy has over 30 years experience as an engineering sales consultant and manufacturer's representative selling to the chemical, pharmaceutical and industrial sectors. For the last 20 years, he has specialized in the sales and engineering of custom vacuum systems in the New York

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### January Section Meeting

- Topic:** The Use of Vacuum in the Chemical, Pharmaceutical and Industrial Application
- Speaker:** Mitchell J. Levy  
Fluid Technology Inc.
- Date:** Tuesday, January 17th
- Time:** 6:00 Social Hour  
6:45 Dinner  
7:30 Presentation
- Location:** Golden Hotel  
800 11<sup>th</sup> Avenue, Golden
- Menu:** Penne Pasta with Marinara Sauce & Pesto Cream Sauce, Meatballs, Sausage, Caesar Salad, Anti-Pasto Platter & Italian Breadsticks with Tiramisu for Dessert
- Cost:** Members: \$20  
Non-Members: \$25  
Students & Unemployed: \$10

Please RSVP by **Friday, January 13<sup>th</sup>** (early RSVPs are greatly appreciated!). Indicate your name, phone number, and number of attendees by e-mailing Tom Wellborn at [rockyaiche@yahoo.com](mailto:rockyaiche@yahoo.com). Alternatively, you leave a voice mail for Tom at 303-933-0533.

(continued from page 1)

metropolitan area and then in Colorado. Clients have included, Hoffman La Roche, Pfizer, Novartis, Dyno Nobel, and Exxon. Mitch holds a BE in chemical engineering from Cooper Union, New York, New York and an M.S in chemical engineering from West Virginia University.

Mitch has written articles on vacuum systems and has presented seminars on vacuum system technology and applications.

Currently Mitch is with Fluid Technology Inc. in Lakewood, Colorado, selling vacuum systems and filtration equipment.

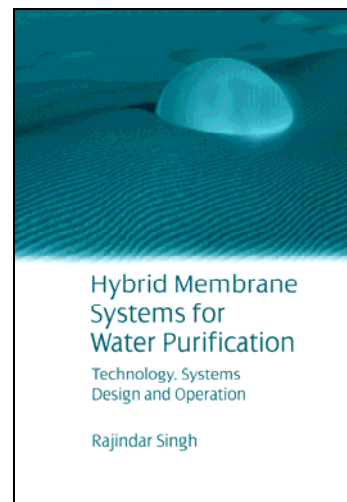
### NEW MEXICO CORNER

New Mexico members are getting active and organized. Kerrie is searching for volunteers to speak/present an engineering topic, so please contact her if you know of anyone available in the Albuquerque area. For more information about the New Mexico meetings, contact Kerrie Pratt at [PrattKL@cdm.com](mailto:PrattKL@cdm.com)

## New Book: Hybrid Membrane Systems for Water Purification

Rajinder Singh, AIChE member from Colorado Springs, recently authored the book Hybrid Membrane Systems for Water Purification, published by Elsevier.

The purification of water can be carried out for several reasons: to provide potable water; ultra-pure water for certain industries; the desalination of brackish or salt water; the purification for food applications or industrial uses such as fuel cell power plants. Membranes are becoming more frequently used in these processes of purification, and this book presents a current synthesis of their technology followed by guidelines on the design and operation of membrane plant systems. Real life case studies enhance the detailed text, giving an insight into problems encountered and solutions devised. Comprehensive engineering data and notes are added to enhance the practical nature of this book, which will be of interest and importance to chemical process engineers, OEM sales and application engineers, engineers and consultants in the water industries and environmental engineers.



## MEETING SCHEDULE

*The Rocky Mountain District of AIChE meets the third Tuesday of every month*

## *AIChE Meetings*

**2006**

Apr 23-27	2006 Spring Nat'l Orlando, FL
Apr 23-27	World Congress on Particle Technology Orlando, FL
June 11-13	Process Develop. Symposium Palm Springs, CA
Sept 10-14	Safety in Ammonia Plants Vancouver
Nov 12-17	2006 Annual Mtg. San Francisco, CA

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.

The National AIChE is pleased to offer members online access to selected resources in the Knovel Life Science and Chemistry Collection, including engineering and scientific references, handbooks, standards, and databases.

While other vendors offer on-line books or journals, Knovel lets you interactively manipulate and search for content across the entire collection. Register through the [www.aiche.org](http://www.aiche.org) website.

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this newsletter electronically!*



**DIRECTIONS**  
**FROM I-70:** Take  
Route 58 (exit 265)  
west towards  
Golden. Take the  
Washington Street  
exit and turn left at  
the stoplight. The  
Golden Hotel is on  
the right side at the  
corner of 11<sup>th</sup> and  
Washington Ave.

**DIRECTIONS FROM I-25:** Take US 6 west towards Golden. Turn  
right onto 19<sup>th</sup> Street. Drive through one stop light, then turn left  
onto Washington Avenue. The Golden Hotel is on the left side at the  
corner of 11<sup>th</sup> and Washington Avenue.