



# SIAM

Society for Industrial and Applied Mathematics



## 5<sup>th</sup> Front Range Applied Mathematics Student Conference

UNIVERSITY OF COLORADO AT DENVER

SATURDAY, MARCH 14<sup>TH</sup>, 2009

### SPONSORS:

THE SIAM STUDENT CHAPTERS AT

University of Colorado at Boulder, Colorado Springs and Denver campuses

The Front Range SIAM Student Chapters are sponsoring the 5<sup>th</sup> Annual Applied Mathematics Regional Student Conference. This event allows students from all universities along the Front Range to learn about new developments in Applied Mathematics and promotes interest in the field. The conference is open to both undergraduate and graduate students.

### Registration Information

We are requesting a \$5 donation per person to help defray the cost of the breakfast and lunch that will be provided at the conference. To register before the day of the conference, please send the name of the conference attendee and their university affiliation along with a check made out to the "University of Colorado" (also write "donation to APPM" on the check) to:

Undergraduate SIAM Student Chapter  
Department of Applied Mathematics  
526 UCB  
University of Colorado at Boulder  
Boulder, CO 80309-0526

### Call for Presentations

There will be 20-minute student presentations. A special MCM/ICM session will also be organized. Please send abstracts in LaTeX (.tex) or plain text (.txt) format to [FRAMSC.abstracts@gmail.com](mailto:FRAMSC.abstracts@gmail.com). For more info, please check the conference website or contact the organizers. **Abstract submission deadline is Tuesday, Mar 3rd, 2009.**

### Plenary Speaker

Dr. Mark Newman

Department of Physics and Center for the Study of Complex Systems  
University of Michigan  
and Santa Fe Institute



"Epidemics, Erdős Numbers, and the Internet: The structure and function of complex networks"

There are networks in almost every part of our lives. Some of them are familiar and obvious: the Internet, the power grid, the road network. Others are less obvious but just as important: the patterns of friendships or acquaintances between people form a social network; the species in an ecosystem join together to form a food web; the workings of the body's cells are dictated by a metabolic network of chemical reactions. As large-scale data on these networks and others have become available in the last few years, a new science of networks has grown up, drawing on ideas from math, engineering, biology, physics and other fields to shed light on systems ranging from bacteria to the whole of human society. This lecture will look at some new discoveries regarding networks, how these discoveries were made, and what they can tell us about the way the world works.

### Contact Information

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Conference Web site: <http://amath.colorado.edu/siam/conference/>

