Registration Information

We are requesting a $10 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 Dr. Lynn Bennethum (also write "UCD SIAM" on the check) to:

Dr. Lynn Bennethum
Dept. of Math. and Stat. Sci.
University of Colorado Denver
1250 14th St. Suite 600
Campus Box 170, PO Box 173364
Denver, CO 80217-3364

If your university has multiple attendees please feel free to submit one check with the registration fees along with a list of the attendees. Registration will be available the day of the conference.

Call for Presentations

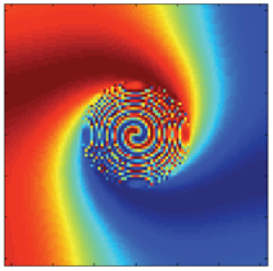
All students (both undergraduate and graduate) are invited to submit abstracts on any research topic in Applied Mathematics. Abstracts should include:

- Title of work to be presented,
- Author's name,
- The university the author is currently attending,
- Names of any advisors or other collaborators,
- An extended description of the research to be presented (of length no greater than 500 words).

Talks: Presentation slots are available for 25 minutes (20 minute talk followed by 5 minutes for questions and set-up of the next speaker).

Please send abstracts in LaTeX or plain text to *FRAMSC.abstracts@gmail.com*

The abstract submission deadline is Saturday, February 26, 2011.



SIAM
Society for Industrial and Applied Mathematics

7th Front Range Applied Mathematics (FRAM) Student Conference

University of Colorado Denver

Saturday March 5th, 2011

Sponsors:
SIAM Student Chapters at
University of Colorado, Boulder
University of Colorado, Colo Spgs
University of Colorado, Denver

http://amath.colorado.edu/cmsms/index.php?page=conference

About the conference

The Front Range SIAM Student Chapters are sponsoring the 7th Annual Applied Mathematics Regional Student (aka FRAM) 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. Additionally, this event is open to both undergraduate and graduate students.

SIAM Student Chapters

Several universities in Colorado host active SIAM Student chapters, with the mission to promote applied mathematics and computational science and to encourage young mathematicians to pursue these fields. Student chapters provide opportunities to share ideas, learn about careers in applied and computational mathematics, and develop networks with faculty and fellow students.

Schedule of Events

The conference is scheduled for Saturday, March 5th, 2011, between 8am and 4pm. Exact schedule will be posted on the conference website. Events will include a plenary address, parallel sessions for student presentations (including a special MCM/ICM session) and a poster session.

Location: The conference will take place in the North Classroom building, on the Auraria Campus Downtown. For more details and directions, please visit the conference website

Contact Information

University of Colorado-Boulder:
Dr. Anne Dougherty, SIAM Ugrad. Chapter Faculty Advisor,
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Dr. Tom Manteuffel, SIAM Grad. Chapter Faculty Advisor, tmanteuf@colorado.edu

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Dr. Radu Cascaval, SIAM Faculty Advisor,
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University of Colorado-Denver
Dr. Lynn Bennethum, SIAM Faculty Advisor,
Lynn.Bennethum@ucdenver.edu

Plenary Speaker

Dr. Edward Ott

Distinguished University Professor
of Electrical Engineering and Physics,
Institute for Research in Electronics and Applied Physics,
Institute for Systems Research

COLLECTIVE BEHAVIOR IN LARGE SYSTEMS OF COUPLED DYNAMICAL UNITS

An important issue arising in many different situations is the question of how global macroscopic behavior emerges from the coupling of many, typically non-identical, dynamically evolving subsystems. For example, what is the mechanism by which the rhythmic oscillations of a group of 10,000 individual pacemaker cells in the heart organize themselves to beat in phase with each other? Other examples include synchronous flashing of fireflies, oscillation of electrical activity in the brain, circadian rhythm, coupled lasers, and many others. This talk will give an overview on recent progress in this field, focusing on modeling and mathematical analysis.