

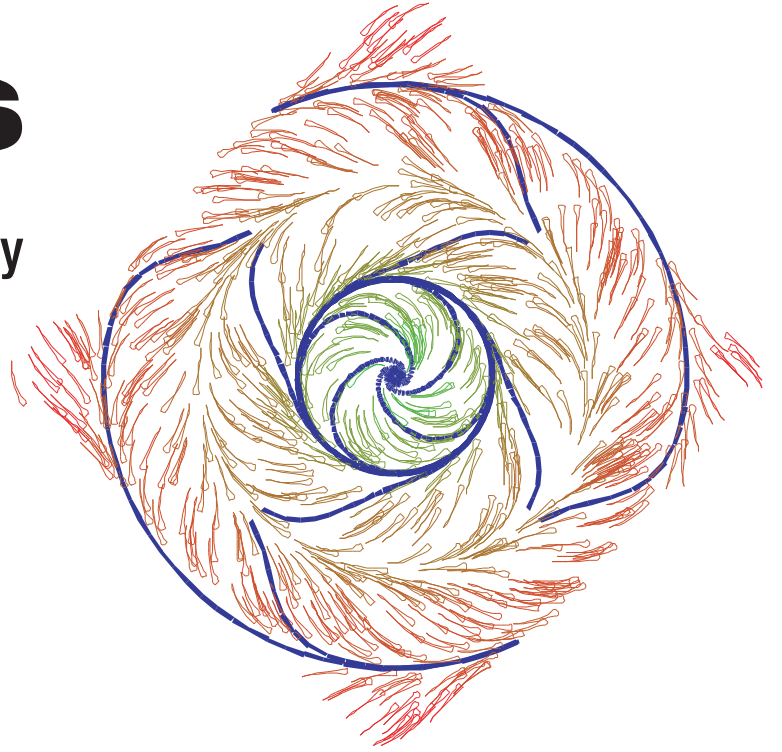
# Computational Mathematics

Wednesday · August 3, 2005 · IRMACS · SFU Burnaby

CECM, Maplesoft, PIMS, IRMACS and MITACS are pleased to present *CECM 2005 Computational Mathematics*, a summer conference hosted by CECM at Simon Fraser University.

## Registration

Registration is required. A registration fee of \$50 per participant will be charged to all participants except invited speakers and invited guests. The registration fee includes the cost of a light lunch. Students may wish to ask their supervisor to pay for their registration fee. Participants who are unable to pay should contact Michael Monagan.



## Morning Session

08:00

### Poster Setup

08:30-08:50

### Registration

(Refreshments will be served.)

08:50-09:00

### Opening · Michael Monagan

09:00-09:50

**Jason Bell** Simon Fraser University

### Rational functions, Hilbert series, and forbidden subwords

09:50-10:40

**Marni Mishna** Simon Fraser University

### Taming apparent singularities via Ore Closure

10:40-11:00

### Coffee Break

11:00-11:50

**Kevin Hare** University of Waterloo

### The Monic Integer Chebyshev Problem

11:50-12:30

**Allan Wittkopf** Simon Fraser University

### Maple 10: New GUI features and math capabilities

## Afternoon Session

12:30-14:00

### Lunch at the Himalayan Peak

14:00-14:50

**Walter Gander** Institute for Computational Science · ETH Zürich

### Generating Numerical Algorithms Using Computer Algebra

14:50-16:30

### Poster and demo session

(Refreshments will be served at 15:30.)

16:30-17:20

**Richard Crandall** Center for Advanced Computation · Reed College

### Theory and application of space-filling curves

17:20

### Best poster awards

18:00

### Social event

## Poster and Demo Session

**Mohammad Ali Ebrahimi and Michael Monagan** Drawing graphs by numerical solution of a system of second order ordinary differential equations (P & D)

**Mohammad Ali Ebrahimi and Michael Monagan** Visualizing system of differential equations in Maple (P & D)

**Al Erickson, Michael Monagan and Ha Le** Univariate polynomial factorization in Maple via combinatorial trial division (P)

**Jeffrey B Farr** Multivariate interpolation in Maple (P)

**Greg Fee** A generalized Apollonius problem (P)

**Ron Ferguson** Optimization methods for binary sequences — The Merit Factor Problem (P)

**Mahdad Khatirinejad** A Graph Theory Package for Maple (P & D)

**Wen Hao Howard Liu and Ha Le** Numerical integration in the student subpackage “Numerical Analysis” (P)

**Simon Lo** Computing characteristic polynomials over  $\mathbb{Z}$  (P & D)

**Enkeleida Lushi** An inversion algorithm for multiple-source dispersion and deposition of particulate matter (P)

**Enkeleida Lushi** Computations of water wave interfaces (P)

**Roman Pearce** Rational expression simplification with algebraic side relations (P)

**Dong Wang** Variable Step-size Implicit-Explicit linear Multistep Methods (VSIMEX) for time-dependent PDEs (P)

register at

[www.cecm.sfu.ca/events](http://www.cecm.sfu.ca/events)