

# Symposium on Kinetic Equations and Methods

April 27/ 28, 2007

## Program

### Friday, April 27, 2007

(all events in Clearihue A 127)

8:30- Registration

9:00- 9:30: Welcome

Martin Taylor, Vice-President Research, University of Victoria

Tom Pedersen, Dean of Science, University of Victoria

Representative of the Pacific Institute for the Mathematical Sciences

9:30-10:30: José A. Carrillo, Universidad Autònoma de Barcelona

Long time asymptotics for the Aizenman-Bak model

10:30-10:45: Coffee break

10:45-11:45: Fraydoun Rezakhanlou, University of California at Berkeley

Coagulating Brownian particles and moment bounds for  
Smoluchowski's equation

11:45-13:30: Lunch break

13:30-14:30: Walter Craig, McMaster University

Invariant tori for Hamiltonian partial differential equations

14:30-15:30: Tai-Ping Liu, Stanford University

Solving Boltzmann's equation: Green's function approach

15:30-16:00: Coffee break

16:00-17:00: Eric Carlen, Georgia Institute of Technology

Determination of the spectral gap in the Kac model for physical momentum and energy conserving collisions

## **Saturday, April 28, 2007**

(all events in Clearihue A 127)

9:30- 10:30: Benoit Perthame, Ecole Normale Supérieure, Paris

Strichartz estimates for kinetic equations

10:30-10:45: Coffee break

10:45-11:45: Shigeru Takata, Kyoto University

Knudsen compressor and gas separation

11:45-13:30: Lunch break (on site)

13:30-14:30: Catherine Sulem, University of Toronto

Water waves over a varying bottom

14:30-15:30: Walter Strauss, Brown University

Stability criteria for the Vlasov-Maxwell system

15:30-15:45: Coffee break

15:45-16:45: Peter Markowich, Universität Wien, RICAM Linz

Nonlinear diffusions as limits of BGK-type kinetic equations

16:45: Closure