



McMaster University



University of Toronto



University of Waterloo

**THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES**

**GENERAL SEMINAR SERIES IN DYNAMICAL SYSTEMS**

**SPEAKER:**

**BRIAN WETTON**  
University of British Columbia  
and The Fields Institute

On the Topic:

**"What is the Order of my Finite Difference Boundary Condition?"**

An introduction to finite difference methods for time-dependent PDE's is given, concentrating on the formulation of the boundary conditions. Some common misconceptions are dispelled and a "recipe" that will handle many problems is given. Applications to triple junctions of phase boundaries, diffusion across cell membranes and incompressible fluid flow are discussed.

**Thursday, February 11, 1993**

**1:30 pm, room 3018**

**at**

**The Fields Institute**

185 Columbia Street West, Waterloo, Ontario N2L 5Z5 Telephone: (519) 725-0096 Fax: (519) 725-0704

Supported by the Ministry of Colleges and Universities of Ontario and the Natural Sciences and Engineering Research Council of Canada